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This report has been prepared to provide a national summary on the status of state air pollution control efforts in terms of organization, programs, and operations. It is a companion to the FY 1972 Digest of State Programs for water pollution control and is being published for the first time in response to requests from governmental agencies and others interested in the activities and progress of state air pollution control programs. The information contained herein was obtained from state implementation plans for achieving the national ambient air quality standards and from surveys and reports prepared by the Office of Air Programs, the former Office of Intergovernmental Programs and the regional offices of the Environmental Protection Agency.

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State Air Programs

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Legislation
Division of Intergovernmental Relations
Washington, D.C. 20460

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PREFACE

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The information contained herein was obtained from State Implementation Plans for achieving the National Ambient Air Quality Standards and from surveys and reports prepared by the Office of Air Programs, the former Office of Intergovernmental Programs and the regional offices of the Environmental Protection Agency. Upon completion of the report, draft copies were distributed to the regional offices and to concerned units of OAP for review and general comment. As a result, adjustments were made in the reported data and suggestions for improving the report have been incorporated.

In some instances difficulties were experienced in obtaining and presenting various kinds of information due to the scarcity of existing data for certain areas, differences in baseline reference points and changing program requirements. Adjustments have been made to insure that summaries reflect the latest available information and data for each period covered and estimates, projections or limitations have been footnoted or explained in the accompanying narrative.

Further details or additional information concerning a specific State program, can be obtained by contacting the appropriate Environmental Protection Agency Regional Office listed in Appendix F.

Your comments and suggestions concerning the format, scope and information presented in this FY 1972 Digest of State Air Programs are invited.

Nicholas M. Golubin
Assistant Director
Division of Intergovernmental Relations
Office of Legislation

August 1972

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Abbreviations Used in this Publication

AQCR - Air Quality Control Region

CO - Carbon Monoxide

EPA - Environmental Protection Agency

GS - General Schedule

HC - Hydrocarbon

NO_2 - Nitrogen Dioxide

NO_x - Nitrogen Oxide

O_x - Oxident

Part. - Particulate

Pop. - Population

R.O. - Regional Office

SIP - State Implementation Plan

SO_2 - Sulfur Dioxide

SO_x - Sulfur Oxide

Section I

ORGANIZATION

A single agency is designated in all 50 States, the District of Columbia, Guam, Puerto Rico, the Virgin Islands, and American Samoa, to administer Air Quality Control Programs. In addition 242 local programs are operating in 38 States. Of the 55 State agencies 13 are EPA Type; agencies combining air, water and possibly other environmental protection programs, but not exercising significant natural resource management or traditional medical health protection functions. Sixteen are Other Type; agencies combining pollution control functions with significant natural resources management functions or those agencies specializing predominantly in the control of air pollution. Twenty-five are Health Type; agencies combining air pollution control functions and possibly other environmental protection programs, with traditional medical health protection functions.

Twenty-two State agencies operate under the aegis of or in connection with a Commission, and twenty-one with a board. Eleven utilize a council or other type of authority and four have none of the above. These Boards and/or Commissions may operate the control agency, exercise regulatory authority or serve in an advisory capacity.

In addition, States are divided into a total of 247 Federally designated air quality control regions for the purpose of carrying out the requirements of the Clean Air Act. The number of regions within each State varies from one to fourteen depending on the size of the State and the complexity of the air pollution problem. There are 128 intrastate and 119 interstate Air Quality Control Regions. A map showing the boundaries of these regions is provided in Section I.E. A list of some of the more significant EPA actions required over the next few years to meet the goals and objectives of the Clean Air Act appear in Section I.F. These actions have considerable impact on the operation and resource requirements of State agencies which are responsible for the control of air pollution in each of the various AQCR's within their jurisdiction.

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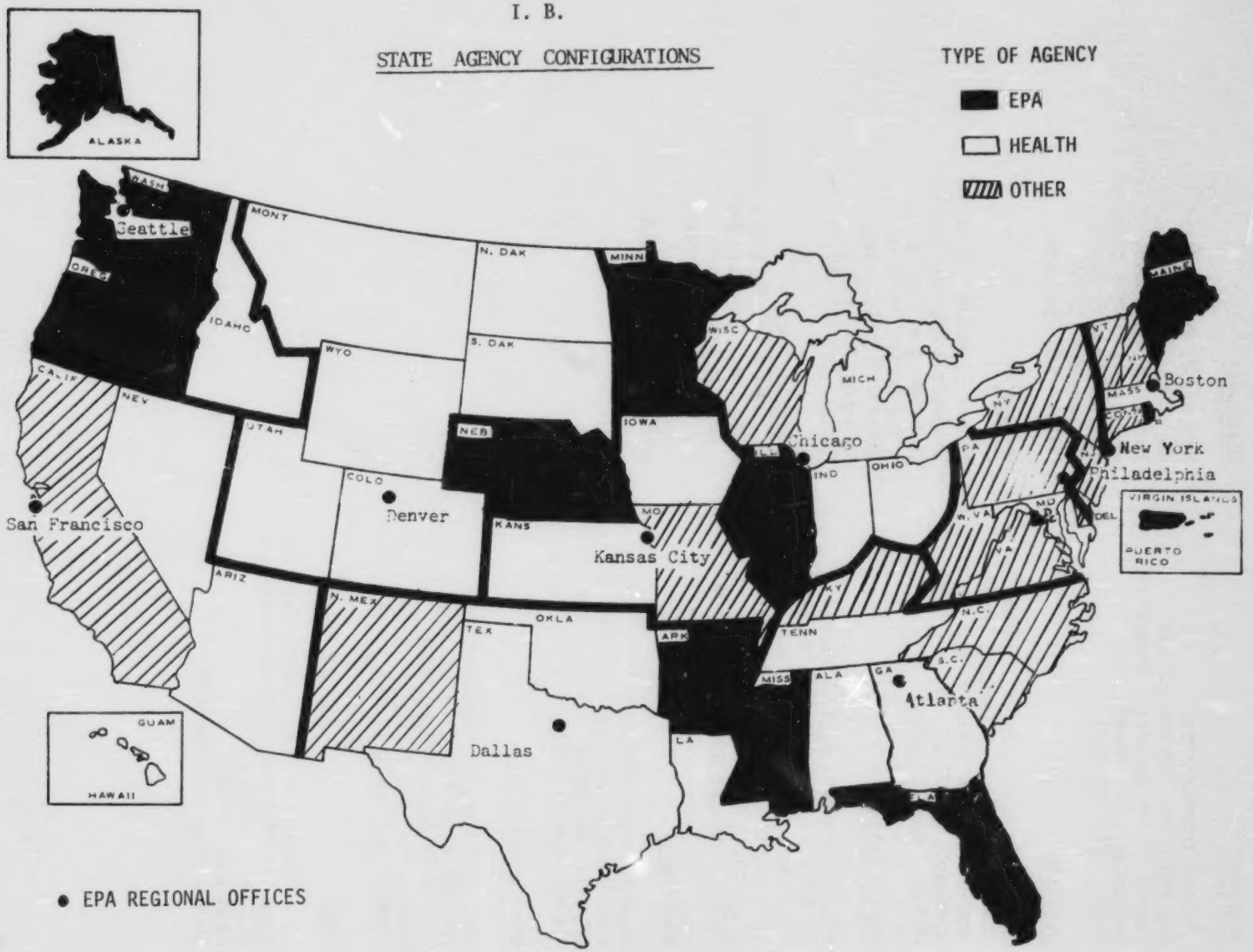
I. B.

STATE AGENCY CONFIGURATIONS



I. C. STATE BOARDS AND/OR COMMISSIONS

STATE	BOARD	COMMISSION	OTHER
Alabama		X	Air Pollution Control Commission
Alaska	X		Environmental Advisory Board
Arizona	X		Board of Health/Air Poll. Control Hearing Board
Arkansas		X	Pollution Control Commission
California	X		Air Resources Board
Colorado		X	Air Pollution Control Commission
Connecticut			
Delaware		X	Water & Air Resources Commission
D. C.			
Florida	X		Air & Water Pollution Control Board
Georgia		X	Fish & Game Commission
Hawaii	X		Board of Health
Idaho		X	Air Pollution Control Commission
Illinois	X		Pollution Control Board
Indiana	X		Air Pollution Control Board
Iowa		X	Air Pollution Control Commission
Kansas	X		Board of Health
Kentucky		X	Air Pollution Control Commission
Louisiana		X	Air Control Commission
Maine		X	Environmental Improvement Commission
Maryland	X		Air Quality Control Advisory Board
Mass.			X Public Health Council
Michigan		X	Air Pollution Control Commission
Minnesota			
Mississippi		X	Air & Water Pollution Control Commission
Missouri		X	Air Conservation Commission
Montana	X		X Board of Health/Air Poll. Control Advisory Council
Nebraska			X Environmental Control Council
Nevada		X	Commission of Environmental Protection
New Hamp.		X	Air Pollution Control Commission
New Jersey			X Clean Air Council
New Mexico	X		Environmental Improvement Board
New York	X		X Environmental Board/Council of Environmental Advisors
N. Carolina	X		Board of Water & Air Resources
North Dakota			X Air Pollution Control Advisory Council
Ohio	X		Board of Health/Air Pollution Control Board
Oklahoma	X		X Board of Health/Air Pollution Council
Oregon		X	Environmental Quality Commission
Pennsylvania	X		Environmental Quality Board
Rhode Island	X		Board of Health
S. Carolina			X Pollution Control Authority
South Dakota		X	Air Pollution Control Commission
Tennessee	X		Air Pollution Control Board
Texas	X		Air Control Board
Utah			X Air Conservation Committee
Vermont			
Virginia	X		Air Pollution Control Board
Washington		X	Ecological Commission
West Va.		X	Air Pollution Control Commission
Wisconsin			X Air Pollution Advisory Council
Wyoming			X Air Resources Council
Guam		X	Air Pollution Control Commission
Puerto Rico	X		Environmental Quality Board
Virgin Islands		X	Air Pollution Advisory Commission
Amer. Samoa		X	Environmental Quality Commission

I. D.

Air Quality Control Regions

State	# Interstate	# Intrastate	Total
Alabama	3	4	7
Alaska	0	4	4
Arizona	3	1	4
Arkansas	4	3	7
California	0	11	11
Colorado	1	7	8
Connecticut	2	2	4
Delaware	1	1	2
D. C.	1	0	1
Florida	2	4	6
Georgia	5	4	9
Hawaii	0	1	1
Idaho	1	3	4
Illinois	7	4	11
Indiana	5	5	10
Iowa	6	6	12
Kansas	1	6	7
Kentucky	5	4	9
Louisiana	3	0	3
Maine	1	4	5
Maryland	2	4	6
Massachusetts	3	3	6
Michigan	2	4	6
Minnesota	3	4	7
Mississippi	2	2	4
Missouri	2	3	5
Montana	0	5	5
Nebraska	2	2	4
Nevada	1	2	3
New Hamp.	2	1	3
New Jersey	3	1	4
New Mexico	3	5	8
New York	2	6	8
N. Carolina	1	7	8
N. Dakota	1	1	2
Ohio	6	8	14
Oklahoma	2	6	8
Oregon	1	4	5
Penna.	3	3	6
Rh. Island	1	0	1
S. Carolina	3	7	10
S. Dakota	2	2	4
Tennessee	4	2	6
Texas	3	9	12
Utah	1	2	3
Vermont	1	1	2
Virginia	2	5	7
Washington	2	4	6
West Va.	4	6	10
Wisconsin	4	4	8

State	# Interstate	# Intrastate	Total
Wyoming	0	3	3
American Samoa	0	1	1
Guam	0	1	1
Puerto Rico	0	1	1
Virgin Islands	0	1	1

Number of AQCR's for:
Alaska - 7
American Samoa - 1
Guam - 1
Puerto Rico - 1
Virgin Islands - 1
Hawaii - 1
AIR QUALITY CONTROL REGIONS
Battelle Memorial Institute
August 26, 1971

IDENTIFICATION OF AIR QUALITY CONTROL REGIONS

1 National Capital (I) (D.C.-Md.-Va.)

2 New Jersey-New York-Connecticut (I)

3 Metropolitan Chicago (I) (Ill.-Ind.)

4 Metropolitan Philadelphia (I) (Pa.-N.J.-Del.)

5 Metropolitan Denver

6 Metropolitan Los Angeles (Calif.)

7 Metropolitan St. Louis (I) (Mo.-Ill.)

8 Metropolitan Boston (Mass.)

9 Metropolitan Cincinnati (I) (Ohio-Ind.-Ky.)

10 San Francisco Bay Area (Calif.)

11 Metropolitan Cleveland (Ohio)

12 Southwest Pennsylvania

13 Niagara Frontier (N.Y.)

14 Metropolitan Kansas City (Mo.-Kan.) (I)

15 Metropolitan Detroit-Port Huron (Mich.)

16 Metropolitan Baltimore (Md.)

17 Hartford-New Haven-Springfield (I) (Mass.-Conn.)

18 Metropolitan Indianapolis (Ind.)

19 Minneapolis-St. Paul (Minn.)

20 Southeastern Wisconsin

21 Metropolitan Providence (I) (R.I.-Mass.)

22 Puget Sound (Wash.)

23 Louisville (I) (Ky.-Ind.)

24 Metropolitan Dayton (Ohio)

25 Phoenix-Tucson (Ariz.)

26 Metropolitan Houston-Galveston (Tex.)

27 Metropolitan Dallas-Fort Worth (Tex.)

28 Metropolitan San Antonio (Tex.)

29 Metropolitan Birmingham (Ala.)

30 Metropolitan Toledo (I) (Ohio-Mich.)

31 Steubenville-Weirton-Wheeling (I) (Ohio-W.Va.)

32 Chattanooga (I) (Tenn.-Ga.)

33 Metropolitan Atlanta (Ga.)

34 Metropolitan Memphis (I) (Ark.-Miss.-Tenn.)

35 Portland (I) (Ore.-Wash.)

36 Wasatch Front (Utah)

37 Southern Louisiana-Southeast Texas (I)

38 Southeast Florida

39 Central Oklahoma

40 Omaha-Council Bluffs (I) (Neb.-Iowa)

42 Charlotte (I) (N.C.-S.C.)

43 Metropolitan Portland (Me.)

44 Albuquerque-Mid Rio Grande (N.M.)

45 Merrimack Valley-Southern New Hampshire (N.H.-Mass.)

46 El Paso-Las Cruces-Alamogordo (I) (Tex.-N.M.)

47 Clark-Mojave (I) (Nev.-Ariz.)

48 Metropolitan Fargo-Moorhead (N.D.-Minn.) (I)

49 Metropolitan Boise (Idaho)

50 Metropolitan Billings (Mont.)

51 Metropolitan Sioux Falls (I) (S.D.-Iowa)

52 Metropolitan Cheyenne (Wyo.)

54 Champlain Valley (I) (Vt.-N.Y.)

57 Northeast Pennsylvania-Upper Delaware Valley (I) (Pa.-N.J.)

58 Eastern Tennessee-Southwestern Virginia (I) (Tenn.-Va.)

59 Columbus-Phenix City (I) (Ga.-Ala.)

60 Cumberland-Keyser (I) (Md.-W.Va.)

61 Duluth-Superior (I) (Minn.-Wisc.)

62 Evansville-Owensboro (I) (Ind.-Ky.)

63 Northeast Mississippi

64 Fort Smith (I) (Ark.-Okla.)

65 Huntington-Ashland-Portsmouth-Ironton (I) (W.Va.-Ky.-Ohio)

66 Southeast Minnesota-La Crosse (I) (Minn.-Wisc.)

67 Lake Michigan (Wisc.)

68 Mobile-Pensacola-Panama City-Southern Mississippi (Ala.-Miss.-Fla.) (I)

69 Paducah-Cairo (I) (Ky.-Ill.)

70 Parkersburg-Mariette (I) (W.Va.-Ohio)

71 Rockford-Janesville-Beloit (Ill.-Wisc.) (I)

72 Tennessee River Valley-Cumberland Mountains (I) (Ala.-Tenn.)

73 South Bend-Elkhart-Benton Harbor (I) (Ind.-Mich.)

74 Northwest Pennsylvania-Youngstown (I) (Pa.-Ohio)

75 Metropolitan Sioux City (Iowa-Neb.-S.D.) (I)

76 Androscoggin Valley (I) (N.H.-Maine)

77 Jacksonville-Brunswick (Fla.-Ga.)

78 Monroe-El Dorado (I) (La.-Ark.)

79 Hampton Roads (Va.)

80 Shreveport-Texarkana-Tyler (La.-Okla.-Tex.-Ark.) (I)

81 Burlington-Keokuk (I) (Ill.-Iowa)

82 Arizona-New Mexico-Southern Border (Ariz.-N.M.) (I)

83 Eastern Washington-Northern Idaho (I) (Wash.-Idaho)

84 Metropolitan Dubuque (I) (Iowa-Ill.-Wisc.)

85 Quad Cities (I) (Ill.-Iowa)

86 Savannah-Beaufort (I) (S.C.-Ga.)

87 Augusta-Aiken (I) (Ga.-S.C.)

88 Northeast Oklahoma

89 Four Corners (I) (Ariz.-Colo.-N.M.-Utah)

90 Northwest Nevada

91 Central Florida

92 West Central Florida

93 Southwest Florida

94 Central Pennsylvania

95 South Central Pennsylvania

96 Greenville-Spartanburg (S.C.)

97 Greenwood (S.C.)

98 Columbia (S.C.)

99 Florence (S.C.)

100 Camden-Sumter (S.C.)

101 Georgetown (S.C.)

102 Charleston (S.C.)

103 Northern Missouri

104 Southeast Missouri

105 Southwest Missouri

106 Western Tennessee

107 Middle Tennessee

108 Mississippi Delta

109 Southeastern Oklahoma

110 North Central Oklahoma

111 Southeastern Oklahoma

112 Northeastern Oklahoma

113 Central New York

114 Genesee-Finger Lakes (N.Y.)

115 Hudson Valley (N.Y.)

116 Southern Tier East (N.Y.)

117 Southern Tier West (N.Y.)

118 Abilene-Wichita Falls (Tex.)

119 Amarillo-Lubbock (Tex.)

120 Austin-Waco (Tex.)

121 Brownsville-Laredo (Tex.)

122 Corpus Christi-Victoria (Tex)

123 Midland-Odessa-San Angelo (Tex.)

124 Central Arkansas

125 Northeast Arkansas

126 Northwest Arkansas

127 Berkshire (Mass.)

128 Central Massachusetts

129 Central Virginia

130 Northeastern Virginia

131 State Capital (Va.)

132 Valley of Virginia

133 Eastern Mountain (N.C.)

134 Eastern Piedmont (N.C.)

135 Northern Coastal Plain (N.C.)

136 Northern Piedmont (N.C.)

137 Sandhills (N.C.)

138 Southern Coastal Plain (N.C.)

139 Western Mountain (N.C.)

140 Eastern Shore (Md.)

141 Central Maryland

142 Southern Maryland

143 North Central Wisconsin

144 Southern Wisconsin

145 Great Basin Valley (Calif.)

146 North Central Coast (Calif.)

147 North Coast (Calif.)

148 Northeast Plateau (Calif.)

149 Sacramento Valley (Calif.)

150 San Diego (Calif.)

151 San Joaquin Valley (Calif.)

152 South Central Coast (Calif.)

153 Southeast Desert (Calif.)

154 Great Falls (Montana)

155 Helena (Montana)

156 Miles City (Montana)

157 Missoula (Montana)

158 Comanche (Colo.)

159 Grand Mesa (Colo.)

160 Pawnee (Colo.)

161 San Isabel (Colo.)

162 San Luis (Colo.)

163 Tampa (Colo.)

164 Southern Delaware

165 Aroostook (Maine)

166 Down East (Maine)

167 Northwest Maine

168 Eastern Connecticut

169 Northwestern Connecticut

170 Northern Washington

171 Olympic-Northwest Washington

172 South Central Washington

173 Eastern Idaho

174 Appalachian (Ky.)

175 Bluegrass (Ky.)

176 North Central Kentucky

177 South Central Kentucky

178 Central Michigan

179 South Central Michigan

180 Upper Michigan

181 East Alabama

182 Alabama and Tombigbee Rivers

183 Southeast Alabama

184 Metropolitan Columbus (Ohio)

185 Mansfield-Marion (Ohio)

186 Northwest Ohio

187 Sandusky (Ohio)

188 Wilmington-Chillicothe-Logan (Ohio)

189 Zanesville-Cambridge (Ohio)

190 North Central Illinois

191 East Central Illinois

192 West Central Illinois

193 Southeast Illinois

194 Casper (Wyoming)

195 Rapid City (S.D.)

196 East Central Indiana

197 Northeast Indiana

198 Southern Indiana

199 Wabash Valley (Ind.)

200 Central Oregon

201 Eastern Oregon

202 Southwest Oregon

203 Northwest Oregon

204 Northeast Iowa

205 North Central Iowa

206 Northwest Iowa

207 Southwest Iowa

208 South Central Iowa

209 Southeast Iowa

210 Lincoln-Beatrice-Fairbury (Neb.)

211 North Central Kansas

212 Northeast Kansas

213 Northwest Kansas

214 South Central Kansas

215 Southeast Kansas

216 Southwest Kansas

217 Allegheny (W.Va.)

218 Central West Virginia

219 Eastern Panhandle (W.Va.)

220 Kanawha Valley (W.Va.)

221 North Central West Virginia

222 Southern West Virginia

223 Central Georgia

224 Northeast Georgia

225 Southwest Georgia

226 Upper Rio Grande Valley (N.M.)

227 Northeastern Plains (N.M.)

228 Southwestern Mountains-Augustine Plains (N.M.)

229 Pecos-Permian Basin (N.M.)

230 Central Minnesota

231 Northwest Minnesota

232 Southwest Minnesota

236 Idaho

237 Nebraska

238 Nevada

239 Central New Hampshire

240 Jersey

241 North Dakota

242 South Dakota

243 Utah

244 Vermont

245 Wyoming

SECTION 1. F. SIGNIFICANT EPA ACTIONS AFFECTING STATE PROGRAMS

● Designation of 247 Air Quality Control Regions covering all geographic areas of the U.S.	-- States have the primary responsibility for assuring achievement and maintenance of national primary and secondary ambient air quality standards within each region of their State.
● Promulgation of national primary and secondary standards based on published criteria and which are necessary to protect the public health and welfare	-- Standards for particulate matter, sulfur oxide, carbon monoxide, photochemical oxidents, nitrogen oxide and hydrocarbons have been issued.
● Promulgation of regulations for submission of State implementation plans for achieving and maintaining national standards	-- States must hold public hearings, adopt and submit plans within nine months after promulgation of a national standard. -- Plans must provide for: emission limitations, compliance schedules and other control measures needed to attain standards including but not limited to land-use and transportation controls; monitoring and analyzing of ambient air quality; procedures for pre-construction review of new stationary sources subject to a performance standard (see below); intergovernmental cooperation; monitoring and reporting of emissions by owners or operators of stationary sources; an emergency episode plan; assurances of adequate resources to carry out the SIP; and, to the extent necessary, a periodic motor vehicle emission inspection and testing program. -- Once the Administrator of EPA approves a plan, or a portion of a plan, States have three years to achieve primary standards and must have set a reasonable specified time period in which to achieve secondary standards.
● Promulgation of regulations for those plans or portions of plans which are not approved	-- States must implement such regulations (substitute plans).
● Promulation of Standards of Performance (emission) for new or modified stationary sources	-- Publish list of stationary source categories to be subject to national emission standards. Sources for which standards will be applicable presently include: sulfuric acid plants; steam electric power plants; municipal type refuse incinerators; nitric acid plants; and Portland cement plants.
● Promulgation of regulations by which States will establish performance (emission) standards for existing stationary sources for pollutants covered by the categories listed for new source performance standards	-- This does not include pollutants covered by a criteria document or which appear on the hazardous substances list.
● Promulgation of hazardous pollutant emission standards for new and existing stationary sources	-- Pollutants to be subject to such standards presently include: asbestos, beryllium and mercury. -- The Administrator shall, when requested by a State, delegate authority for implementing and enforcing applicable standards, provided the State has developed adequate procedures to insure their attainment. (Also applicable in the case of new source Standards of Performance)

SECTION II

PROGRAMS

II. A.

The tabulation on the following page lists the status of the States authority for carrying out its Air Implementation Plan under the requirements of Title 40, Chapter 1, Part 51, Subpart B, Paragraph 51.11(A), Code of Federal Regulations.

Changes in State authorities will be occurring continuously as legislators enact new laws pertaining to control of air pollution and to meet the requirements of the Federal statues.

The information contained herein is the status of such authority as of June 5, 1972.

II.A. Legal Authority Needed to Carry Out State Implementation Plans - 6/5/72

STATE	ADEQUATE	LESS THAN ADEQUATE	
		FEDERAL DELEGATION AVAILABLE	FED. DELE. NOT AVAILABLE
Alabama	X		
Alaska		5(a)	
Arizona	X		
Arkansas	X		
California		5(a)	2
Colorado		5(b)*	
Connecticut	X		
Delaware		5(a)	
D. C.		5(a)	
Florida	X		
Georgia	X		
Hawaii		4(d)	2
Idaho		5(a)*	
Illinois	X		
Indiana	X		
Iowa		5(a) (new law will correct deficiency)	
Kansas		5(a)	
Kentucky		5(a)*	
Louisiana	X		
Maine	X		
Maryland			3
Massachusetts	X		
Michigan	X		
Minnesota	X		
Mississippi	X		
Missouri		5(a & b)	
Montana	X		
Nebraska		5(a)	
Nevada			2
New Hampshire	X		
New Jersey		3	
New Mexico	X		
New York	X		
N. Carolina	X		
N. Dakota	X		
Ohio	X		
Oklahoma	X		
Oregon	X		
Pennsylvania	X		
Rh. Island		4(a), 5	
S. Carolina		4* , 5*	
S. Dakota		5(a)*	
Tennessee			1, 2
Texas	X		
Utah		5(a)	
Vermont		5(a)	
Virginia	X		
Washington		5(a)**	
West Virginia	X		
Wisconsin		5(a)	
Wyoming		4(c), 5	3
Guam	X		
Puerto Rico	X		
Vir. Islands	X		
Amer. Samoa	X		

*Federal authority provided thru delegation **Federal delegation requested

KEY
Legal Authority

1. State Agency precluded from controlling cotton gins and saw mills.

2. State does not have emergency episode authority comparable to Section 303 of the Clean Air Act.

3. State may not control construction, modification or operation of certain sources.

4. a. State cannot require recordkeeping.
   b. State cannot require recordkeeping of existing sources.
   c. State cannot make inspections and conduct tests.
   d. State cannot require reporting and recordkeeping.

5. a. Emission data not available to public.
   b. State cannot require installation or use of monitoring devices.

II. B. FUNDING

The tabulation on the following page shows the budgeted funds by State and local agencies and by the Federal Government to support air pollution control programs for Fiscal Year 1972.

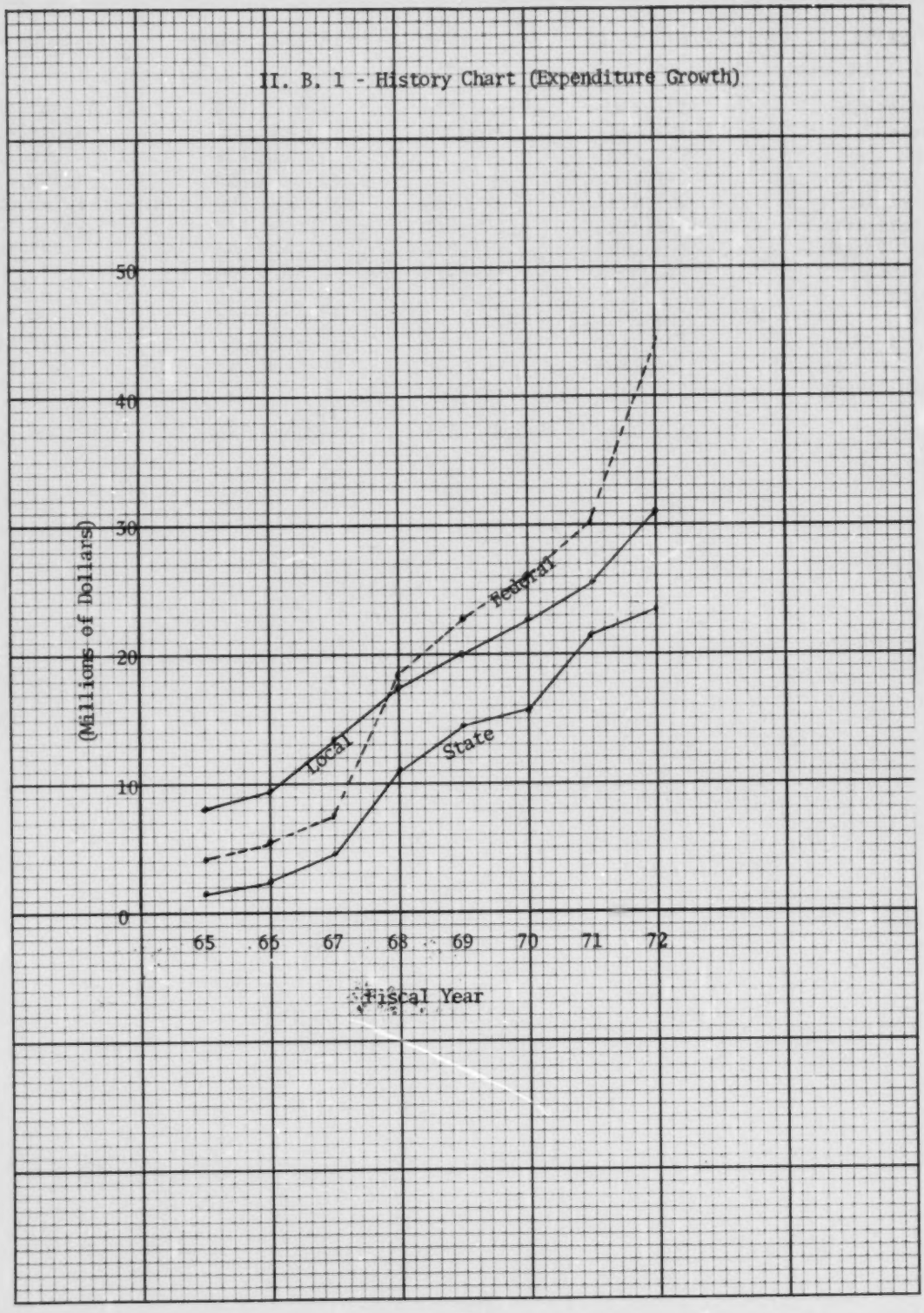
Figure II.B.1 is a history chart reflecting the growth of State, local and Federal expenditures starting with 1965, the first year in which Federal grant funds were made available, to the present.

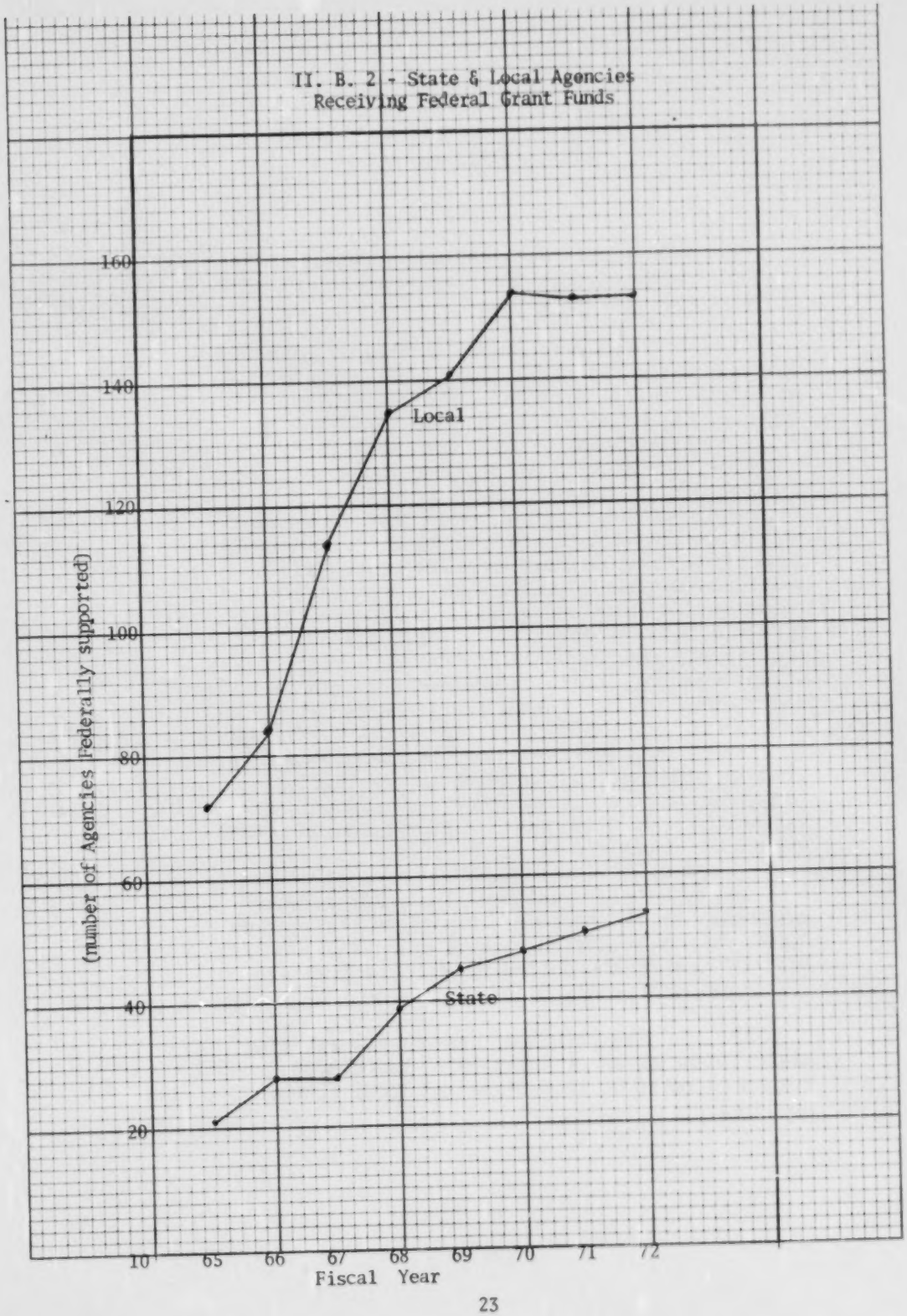
Figure II.B.2 indicates the growth in the number of State and local agencies receiving Federal funds for the period of 1965-1972.

II. B. 1.
STATE F.Y. 1972 BUDGETED FUNDING

STATE	STATE FUNDS	LOCAL FUNDS	FEDERAL FUNDS	TOTAL FUNDS
Alabama	$239,100	$86,449	$527,324	$852,873
Alaska	28,889	51,470	120,334	200,693
Arizona	236,824	206,832	415,762	859,418
Arkansas	136,000	--	261,000	397,000
California	6,399,601	8,459,665	3,521,972	18,381,238
Colorado	378,651	232,760	610,680	1,222,091
Connecticut	494,500	326,430	1,355,796	2,176,726
Delaware	173,931	--	234,314	408,245
D. C.	117,068	--	234,134	351,202
Florida	572,392	421,171	1,097,337	2,090,900
Georgia	291,221	97,578	564,609	953,408
Hawaii	193,989	--	96,445	290,434
Idaho	61,000	--	60,000	121,000
Illinois	1,012,631	3,368,858	2,278,292	6,659,781
Indiana	265,000	662,873	748,054	1,675,927
Iowa	212,130	105,771	453,233	771,134
Kansas	110,027	82,947	384,841	577,815
Kentucky	335,902	202,062	602,510	1,140,474
Louisiana	225,535	--	350,021	575,556
Maine	92,750	--	192,000	284,750
Maryland	430,657	558,642	1,425,688	2,414,987
Mass.	223,212	377,723	1,312,921	1,913,856
Michigan	348,273	1,007,007	1,841,629	3,196,909
Minnesota	472,357	166,093	589,005	1,227,455
Mississippi	64,000	--	120,000	184,000
Missouri	143,312	686,265	1,021,214	1,850,791
Montana	103,834	34,934	239,007	377,775
Nebraska	25,824	119,788	231,929	377,541
Nevada	15,163	131,634	191,827	338,624
New Hamp.	78,363	--	185,409	263,772
New Jersey	1,212,602	141,547	2,256,850	3,610,999
New Mexico	155,058	62,905	476,898	694,861
New York	1,767,000	7,133,450	3,967,790	12,868,240
N. Carolina	276,850	274,413	816,574	1,367,837
North Dakota	19,660	--	45,000	64,660
Ohio	290,250	1,564,916	1,850,107	3,705,273
Oklahoma	115,007	172,057	425,900	712,964
Oregon	385,785	317,855	570,784	1,274,424
Penna.	1,588,082	1,537,712	3,332,500	6,458,294
Rh. Island	89,156	--	133,899	223,055
S. Carolina	332,125	85,022	385,773	802,920
South Dakota	7,000	--	21,000	28,000

STATE	STATE FUNDS	LOCAL FUNDS	FEDERAL FUNDS	TOTAL FUNDS
Tennessee	$334,830	$263,339	$973,179	$1,571,348
Texas	1,159,719	663,094	3,254,021	5,076,834
Utah	135,252	--	176,778	312,030
Vermont	97,228	--	154,426	251,654
Virginia	247,899	180,333	632,197	1,060,429
Washington	818,345	593,031	1,103,199	2,514,575
West Virginia	396,250	14,322	387,308	797,880
Wisconsin	291,000	426,911	754,480	1,472,391
Wyoming	34,722	--	68,016	102,738
Guam	16,857	--	33,714	50,571
Puerto Rico	234,047	--	464,417	698,464
Vir. Islands	41,168	--	100,043	141,211
Amer. Samoa	8,000	--	--	8,000
TOTAL	$23,536,028	$30,817,859	$43,652,140	$98,006,027


II. B. 1 - History Chart (Expenditure Growth)
50
40
30
20
10
0
(Millions of Dollars)
Federal
Local
State
65
66
67
68
69
70
71
72
Fiscal Year


II. B. 2 - State & Local Agencies
Receiving Federal Grant Funds
(number of Agencies Federally supported)
160
140
120
100
80
60
40
20
10
Local
State
65
66
67
68
69
70
71
72
Fiscal Year

II. C. STAFFING

The following tables provide information as to the general overall staffing situation of control agencies with regard to:

II.C.1. Man-year levels in FY 1972 being devoted to the four major functional areas of pollution control activities (as defined in Appendix C), based mostly on data submitted in State implementation plans. For comparison purposes, the FY 1975 OAP manpower model estimates are provided. These estimates are not to be taken as representing the levels that each State will actually need to reach in order to carry out successful control programs. The model was developed to calculate the long-range staffing needs of all State and local agencies predicated upon a data base utilizing factors such as population, area of coverage, manufacturing establishments, capital investments in manufacturing and minimum air monitoring requirements called for by Federal regulations. It represents an attempt to predict the nationwide manpower requirement for planning purposes and, as with any estimating technique, is subject to individual exceptions, variations and future modification based on actual experience among the States.

II.C.2. Major fields of study for persons employed in the various occupational categories common to air pollution control agencies. General descriptions of the duties of each category are contained in Appendix D.

II.C.3. The principal reasons for existing staff vacancies as of April 1971, based upon responses received from State and local control agencies.

II C.1. Staffing by State

Current Man-year level by function as compared to OAP manpower model estimate of need by 1975

State	FY	Technical Services	Enforcement	Engineering	Management	Total
Alabama	1972	18.0	6.0	19.0	12.1	55.1
	1975	38.6	51.9	39.5	41.7	171.7
Alaska	1972	1.5	1.5	2.5	2.5	8.0
	1975	4.2	2.8	4.6	5.9	17.5
Arizona	1972	16.3	13.6	10.4	13.7	54.0
	1975	22.0	20.5	14.1	18.1	74.7
Arkansas	1972	4.0	1.8	6.6	4.1	16.5
	1975	18.4	30.0	18.8	21.6	88.8
California	1972	157.0	283.0	209.0	200.0	849.0
	1975	166.4	327.5	213.8	226.7	934.4
Colorado	1972	23.7	22.5	8.3	23.4	77.9
	1975	21.3	28.4	15.6	20.9	86.2
Conn.	1972	26.1	16.9	9.9	20.8	73.7
	1975	41.6	56.1	51.2	47.7	196.6
Delaware	1972	7.2	5.9	3.3	4.6	21.0
	1975	7.9	6.5	10.4	8.0	32.8
D. C.	1972	6.5	6.0	4.0	7.5	24.0
	1975	8.9	8.0	3.6	6.5	27.0
Florida	1972					146.0
	1975	51.7	89.8	45.6	59.9	247.0
Georgia	1972	17.6	24.3	17.6	11.5	71.0
	1975	55.7	71.8	54.4	58.3	240.2
Hawaii	1972	4.0	3.7	2.8	3.5	14.0
	1975	3.9	8.7	4.1	5.4	22.1
Idaho	1972	4.0	1.4	1.5	5.1	12.0
	1975	12.2	11.7	7.0	9.9	40.8
Illinois	1972	52.2	92.5	56.2	111.4	312.3
	1975	117.2	186.0	168.2	151.1	622.5
Indiana	1972	14.7	35.9	15.5	28.3	94.4
	1975	63.1	74.1	69.1	66.1	272.4
Iowa	1972	9.8	8.2	10.5	10.5	39.0
	1975	29.5	38.2	27.8	30.6	126.1

II C.1. Staffing by State (cont'd)

Current Man-year level by function as compared to OAP manpower model estimate of need by 1975

State	FY	Technical Services	Enforcement	Engineering	Management	Total
Kansas	1972	7.9	6.9	8.5	8.7	32.0
	1975	23.3	3.3	20.1	23.9	98.6
Kentucky	1972	23.0	21.8	18.0	13.0	75.8
	1975	32.9	38.3	35.7	34.3	141.2
Louisiana	1972	15.7	10.0	10.6	9.8	46.1
	1975	20.5	31.0	65.5	37.5	154.5
Maine	1972	3.8	2.5	2.4	3.4	12.1
	1975	16.0	22.3	13.7	16.7	68.7
Maryland	1972					191.0
	1975	39.4	43.9	30.7	36.5	150.5
Mass.	1972	21.3	41.3	20.5	38.0	121.1
	1975	77.8	105.9	72.5	82.1	338.3
Michigan	1972	41.0	47.2	26.2	47.6	162.0
	1975	82.2	145.3	152.6	121.9	502.0
Minnesota	1972					49.0
	1975	37.9	57.1	34.0	41.4	170.4
Mississippi	1972	3.4	3.0	2.0	4.3	12.6
	1975	21.0	30.4	28.7	25.7	105.8
Missouri	1972	25.4	24.2	18.3	25.4	93.3
	1975	44.6	69.5	44.0	50.7	208.8
Montana	1972	9.0	11.0	3.5	6.0	29.5
	1975	9.8	9.9	5.3	8.0	33.0
Nebraska	1972	3.3	3.9	3.0	3.8	14.0
	1975	12.8	19.2	10.8	13.7	56.5
Nevada	1972	7.1	7.6	3.2	8.9	26.8
	1975	8.5	4.8	2.7	5.1	21.1
New Hamp.	1972	4.0	3.6	3.0	7.0	17.6
	1975	11.6	14.1	10.5	11.6	47.8
New Jersey	1972					208.0
	1975	191.6	353.2	219.2	237.3	1001.3
New Mexico	1972	12.3	9.7	8.5	13.0	43.5
	1975	12.4	10.4	3.9	8.6	35.3
New York	1972					638.0
	1975	213.6	392.8	230.7	268.2	1105.3

II C. 1. Staffing by State (cont'd)

Current Man-year level by function as compared to OAP manpower model estimate of need by 1975

State	FY	Technical Services	Enforcement	Engineering	Management	Total
North Carolina	1972	35.6	28.0	17.6	28.1	109.3
	1975	51.1	83.2	74.8	67.0	276.1
North Dakota	1972	1.9	1.2	0.4	1.7	5.2
	1975	3.9	6.3	2.0	3.9	16.1
Ohio	1972	48.0	62.0	32.0	59.0	201.0
	1975	120.5	161.8	185.3	150.0	617.6
Oklahoma	1972	22.1	20.3	5.4	13.9	61.7
	1975	20.6	31.3	15.0	21.4	88.3
Oregon	1972	21.9	16.6	15.9	22.1	76.5
	1975	27.2	41.6	31.4	32.1	132.3
Penna.	1972	77.0	123.4	44.4	86.0	330.8
	1975	125.6	191.2	177.1	158.3	652.2
Rhode Island	1972	5.0	6.0	1.5	3.5	16.0
	1975	17.1	23.7	14.4	17.7	72.9
South Carolina	1972	14.2	24.3	13.3	13.3	65.1
	1975	32.0	41.3	41.3	36.8	151.4
South Dakota	1972	1.0	1.0	1.5	3.6	7.1
	1975	4.2	6.7	2.2	4.2	17.3
Tennessee	1972					102.0
	1975	42.8	54.9	47.1	46.4	19[illegible].2
Texas	1972	77.1	205.3	74.7	37.4	394.5
	1975	90.1	145.9	131.7	117.9	485.6
Utah	1972	9.2	2.0	2.0	5.0	18.2
	1975	13.8	13.3	8.8	11.5	47.4
Vermont	1972	2.0	4.0	2.0	4.0	12.0
	1975	6.9	8.7	5.7	6.8	28.1
Virginia	1972	18.8	26.0	12.0	30.0	86.0
	1975	51.1	57.8	42.8	48.6	200.3
Washington	1972	28.5	33.0	21.5	33.0	116.0
	1975	39.3	52.3	48.8	45.0	185.4
West Va.	1972	19.4	12.2	10.2	11.2	53.0
	1975	20.3	21.4	26.4	21.8	89.9

II. C. 1. Staffing by State (cont'd)

Current Man-year level by function as compared to OAP manpower model estimate of need by 1975

State	FY	Technical Services	Enforcement	Engineering	Management	Total
Wisconsin	1972	18.8	27.5	13.4	13.4	73.1
	1975	47.4	77.2	61.8	59.8	246.2
Wyoming	1972	1.0	1.5	1.5	2.2	6.2
	1975	3.8	4.0	1.8	3.1	12.7
Puerto Rico	1972	10.2	5.0	2.5	10.0	32.7
	1975	11.4	30.3	13.6	17.7	73.0
Guam	1972	1.0	.1	.7	1.2	3.0
American Samoa	1972	.4	.2	.4	1.0	2.0
Virgin Islands	1972	2.4	.6	1.0	2.0	6.0

TOTAL FY 72 5,417.7

TOTAL FY 75 11,023.9

II.C.2. Staffing by Occupational Category

MAJOR FIELDS OF STUDY	OCCUPATIONAL CATEGORY																			TOTAL
	Director	Supervisor	Engineer I	Engineer II	Chemist I	Chemist II	Metrologist I	Metrologist II	Specialist I	Specialist II	Technician I	Technician II	Technician III	Inspector I	Inspector II	Inspector III	Aide I	Aide II	Adminis. Clerical, Other	
Agriculture	5	6	2	1	2	8	-	-	12	4	1	2	1	2	8	2	-	-	2	58
Biol., Phys. Science	68	80	27	53	117	182	9	13	81	91	16	23	14	15	45	37	4	2	33	910
Social Science	4	4	-	-	1	2	1	1	3	4	2	1	3	3	13	3	-	1	18	64
Business, Commerce	8	15	5	7	-	1	-	1	6	2	1	2	-	4	19	4	-	-	18	93
Mathematics	1	6	3	2	2	3	1	1	5	-	2	3	1	2	3	1	-	-	6	42
Liberal Arts, Humanities	2	4	-	2	-	1	-	1	3	9	1	4	-	4	4	3	-	-	16	54
Education	4	7	-	4	2	2	-	5	5	5	1	2	-	4	14	3	1	1	4	64
Health Professions	40	33	-	6	3	3	-	-	-	9	-	1	5	1	1	2	-	-	10	114
Engineering	146	185	317	403	6	14	1	6	25	15	12	9	8	3	20	12	-	-	22	1204
Other*	51	45	15	39	13	17	1	9	15	29	12	32	11	9	30	34	-	1	70	433
TOTAL	329	385	369	517	146	233	13	37	155	168	48	79	43	47	157	101	5	5	199	3036

*Includes: Law, General Science, Medicine and Degrees with no field specified

April 1971

- None Reported

II.C.3.
Reasons for Vacancies

Reason	State Agency	Local Agency	Total	Percent
No Difficulty Expected	75	101	176	35.8
Lack of Trained, Qualified Applicants	40	58	98	19.9
Salary Inadequacies	10	53	63	12.8
Government Freeze on Hiring	31	17	48	9.7
Lack of Funds or Grant	11	24	35	7.1
Awaiting Exam Results on Applicant Acceptance	14	12	26	5.3
Personnel System Problems	13	0	13	2.6
Limited Space	5	0	5	1.0
Other	7	21	28	5.7
TOTAL	206	286	492	100.0

II. C. 4 STATE ASSIGNEES

The EPA State Assignee Program, initiated in July 1971, provides for the hiring of a limited number of professional and technical persons by EPA and assigning them to State and local air pollution control agencies. This Program was developed in accordance with Sections 105(d) and 301(b) of the Clean Air Act. An essential ingredient of this program is the distinctly limited, short-term nature of the assignment. The period of detail is not to exceed two years with the objective being to encourage control agencies to hire assignees during or upon conclusion of the two year period of employment.

Control agencies are sometimes at a disadvantage in hiring professionals immediately upon their graduation (or technicians with experience) due to hiring freezes, ceiling limitations, or merit system regulations such as, residency requirements, etc. Federal regulations and pay scales often permit greater flexibility with respect to an agency's ability to compete for and hire persons in scarcity categories as well as those who possess skill presently not provided for through State or local personnel systems.

During their assignment period, assignees will receive training and on-the-job experience that should enhance their value to the control agency with the result that at the end of two years, the agency will want to make every possible effort to hire them rather than recruit new inexperienced personnel.

The following table reflects the number of State assignees presently on board and pending assignment as of May 31, 1972. A summary of the various occupation categories and the number of persons employed in each is also provided. The majority of persons hired through this program start at Federal entrance level salaries for the professional services. This is evidenced by the following distribution of filled positions at each grade level:

GRADE	NUMBER	GRADE	NUMBER
GS-4	4	GS-7	58
GS-5	50	GS-9	14
GS-6	3	GS-11	4

II.C.4.

STATUS OF STATE ASSIGNEE PROGRAM
As of May 31, 1972

State	Job Category	On Board	Pending
Alabama	Civil Engineer	2	0
	Mechanical Engineer	1	0
	Chemist	1	0
	General Engineer	0	1
Alaska	General Engineer	1	
	Mechanical Engineer		1
Arizona	-	-	-
Arkansas	Civil Engineer	1	0
California	Chemical Engineer	1	0
Colorado	General Engineer	1	0
	Civil Engineer	1	0
	Physicist	0	1
Connecticut	Mechanical Engineer	1	0
Delaware	Chemical Engineer	2	2
D. C.	Mechanical Engineer	1	0
Florida	Mechanical Engineer	1	0
	Electronic Technician	0	2
	General Engineer	0	4
Georgia	General Engineer	1	0
	Mechanical Engineer	1	0
Hawaii	Electrical Engineer	1	1
	Mechanical Engineer	2	0
Idaho	Chemist	1	0
	Mechanical Engineer	1	0
Illinois	Chemical Engineer	7	1
	Mechanical Engineer	1	1
Indiana	Mechanical Engineer	2	0
	Chemical Engineer	3	2
	Sanitary Engineer	1	1
Iowa	0	0	0
Kansas	Mechanical Engineer	3	0
	Chemical Engineer	1	0

STATUS OF STATE ASSIGNEE PROGRAM (cont'd.)
As of May 31, 1972

State	Job Category	On Board	Pending
Kentucky	Civil Engineer	1	0
	Mechanical Engineer	1	0
Louisiana	Mechanical Engineer	2	0
Maine	Chemist	2	0
	Civil Engineer	0	1
	Engineering Technician	0	1
	Mechanical Engineer	1	
Maryland	Chemical Engineer	2	0
	Mechanical Engineer	1	0
	General Engineer	1	0
Massachusetts	Mechanical Engineer	2	0
	Chemist	0	1
Michigan	Chemical Engineer	1	0
Minnesota	Civil Engineer	1	0
	Industrial Engineer	1	0
Mississippi	Chemical Engineer	1	0
	General Engineer	0	1
	Mechanical Engineer	1	0
Missouri	Mechanical Engineer	2	0
	Engineering Technician	1	0
Montana	Chemist	2	0
	Engineering Technician	1	1
Nebraska	Electrical Engineer	1	0
	Engineering Technician	0	1
	Chemical Engineer	0	1
Nevada	Mechanical Engineer	1	1
	Chemical Engineer	1	0
	General Engineer	0	1
New Hampshire	Meteorologist	1	0
New Jersey	Computer Programmer	1	0
	Meteorologist	1	0
New Mexico	-	0	0
New York	Sanitary Engineer	1	0
	Meteorologist	2	0
	Chemist	1	0

II.C.4. STATUS OF STATE ASSIGNEE PROGRAM (cont'd)
As of May 31, 1972

State	Job Category	On Board	Pending
North Carolina	Mechanical Engineer	1	3
	Chemical Engineer	0	4
	Materials Engineer	1	0
North Dakota	Civil Engineer	1	0
Ohio	Chemical Engineer	2	1
	Engineering Technician	0	2
	General Engineer	1	0
	Mathematician	0	1
	Mechanical Engineer	2	0
	Meteorologist	0	1
Oklahoma	Physical Science Tech.	2	0
	Engineering Technician	2	0
Oregon	Physicist	1	0
	Mechanical Engineer	2	0
	Civil Engineer	1	0
Pennsylvania	Chemical Engineer	4	0
	General Engineer	2	1
	Electrical Engineer	3	0
	Mechanical Engineer	4	0
	Engineering Technician	0	1
	Industrial Engineer	0	1
	Physical Science Tech.	1	0
Rhode Island	Chemist	1	0
	Mechanical Engineer	1	0
South Carolina	Mechanical Engineer	2	0
	Chemical Engineer	1	0
South Dakota	Civil Engineer	1	0
	Chemist	1	0
	Physical Science Tech.	2	0
	Physical Scientist	0	1
Tennessee	General Engineer	1	0
Texas	Chemical Engineer	1	0
Utah	Mechanical Engineer	1	0
	Chemical Engineer	1	0
Vermont	Mechanical Engineer	1	0

II.C.4. STATUS OF STATE ASSIGNEE PROGRAM (cont'd)

State	Job Category	On Board	Pending
Virginia	Mechanical Engineer	1	0
	Chemical Engineer		4
Washington	Mechanical Engineer	2	0
	Chemist	2	0
	Chemical Engineer	1	0
	Civil Engineer	1	0
West Virginia	Chemist	2	0
Wisconsin	Civil Engineer	1	0
	Chemist	0	1
	General Engineer	0	1
	Mechanical Engineer	1	0
Wyoming	Chemical Engineer	1	0
	Civil Engineer	1	0
	Chemist	1	0
American Samoa	-	0	0
Guam	General Engineer	1	0
Puerto Rico	Chemical Engineer	1	1
	Chemist	0	1
Virgin Islands	Engineering Technician	0	1
	TOTALS	133	51

Summary by Job Category & Grade

Job Category	On Board	Pending	Grade
Chemical Engineer	31	17	GS-5-11
Civil Engineer	12	0	GS-5-7
Chemist	14	3	GS-9-11
Mechanical Engineer	43	6	GS-5-11
Materials Engineer	1	0	GS-7
Meteorologist	4	1	GS-5-9
Electrical Engineer	5	1	GS-5-6
General Engineer	9	9	GS-5-9
Industrial Engineer	1	1	GS-5
Sanitary Engineer	2	1	GS-7-11
Physical Scientist	0	1	GS-11
Mathematician	0	1	GS-5
Physicist	1	1	GS-7-11
Technicians	9	9	GS-4-6
Computer Programmer	1	0	GS-7
TOTALS	133	51	

II.D. SALARIES

The following table (II.D.1) provides FY 1971 full-time State and local salary ranges for each of the air pollution control occupational categories contained in Appendix D.

Tables II.D.2 and II.D.3 give the salary range and the mean salary range by occupational categories.

While there is a wide difference between the highs and the lows in terms of salary ranges in Table II.D.2 there is no apparent relationship as to the type of agency.

The data in these tables represent ranges for a specific position and therefore, are not necessarily the actual salary of any given individual.

II.D.1 STATE AIR POLLUTION CONTROL SALARY RANGES WITHIN OCCUPATIONAL CATEGORIES

State	Range	Occupational Title								
		Director	Supervisor	Engineer	Chemist	Meteorologist	Specialist	Technician	Inspector	Aide
Alabama	Low	10.5	10.0	6.9	6.0	--	7.5	--	7.2	--
	High	18.0	13.9	11.1	10.3	--	9.7	--	8.8	--
Alaska	Low	--	13.9	--	12.0	--	12.0	10.4	--	--
	High	--	17.8	--	15.4	--	15.4	13.3	--	--
Arizona	Low	12.7	11.0	9.6	7.8	--	7.8	8.6	4.3	5.8
	High	19.1	16.9	13.4	12.7	--	12.0	11.0	8.7	6.9
Arkansas	Low	7.7	--	9.0	7.7	--	--	5.7	--	--
	High	10.3	--	12.2	10.3	--	--	7.0	--	--
California	Low	11.9	9.0	8.7	8.5	8.4	8.0	7.9	6.9	9.0
	High	34.6	26.4	21.5	16.1	17.7	20.4	18.5	15.7	11.0
Colorado	Low	10.6	12.0	12.0	7.5	11.0	6.7	3.6	7.2	9.4
	High	22.0	18.1	16.5	12.9	16.5	14.9	9.3	11.7	11.8
Connecticut	Low	13.0	10.0	9.5	5.2	--	6.7	7.5	8.0	--
	High	25.0	15.0	13.5	14.0	--	11.8	10.0	9.0	--
Delaware	Low	--	--	9.0	8.5	7.0	7.0	5.0	6.5	--
	High	--	--	13.0	13.0	10.0	12.0	9.0	8.3	--
D. C.	Low	25.5	13.2	9.0	--	--	9.0	9.0	8.5	--
	High	33.2	24.3	17.3	--	--	17.3	15.7	18.0	--
Florida	Low	13.7	10.9	9.0	7.8	11.9	7.4	4.1	7.6	4.6
	High	22.5	20.5	22.6	16.6	16.6	13.5	9.0	11.7	7.2
Georgia	Low	16.5	10.2	9.3	7.8	--	6.5	5.3	6.1	--
	High	21.9	18.1	14.6	11.2	--	13.6	9.0	11.0	--
Hawaii	Low	13.8	--	8.6	8.5	--	8.5	--	8.5	--
	High	21.5	--	15.3	15.3	--	15.3	--	13.2	--
Idaho	Low	13.0	10.0	11.0	--	--	7.0	--	--	--
	High	17.0	12.5	13.0	--	--	10.0	--	--	--
Illinois	Low	15.0	10.6	6.2	9.1	9.6	15.8	7.2	5.0	--
	High	26.7	20.5	21.0	17.4	14.9	21.0	16.2	21.0	--
Indiana	Low	8.2	8.4	10.3	6.0	--	5.6	4.5	4.5	--
	High	21.2	14.0	12.0	12.8	--	10.8	9.5	10.0	--
Iowa	Low	8.5	--	9.3	9.2	--	8.0	4.0	7.3	--
	High	19.4	--	17.6	11.1	--	11.9	12.0	8.8	--
Kansas	Low	13.4	11.9	8.5	9.8	--	8.0	--	7.0	--
	High	17.6	14.4	13.1	12.5	--	12.4	--	8.6	--
Guam	Low	12.0		--	9.0	--	--	--	5.3	--
	High	--		--						

Salary Range by State

State	Range	Occupational Title								
		Director	Supervisor	Engineer	Chemist	Meteorologist	Specialist	Technician	Inspector	Aide
Kentucky	Low	13.8	9.3	6.9	8.4	9.3	4.9	5.5	4.5	5.7
	High	17.7	14.5	14.9	12.3	11.9	10.8	10.8	11.9	8.1
Louisiana	Low	14.9	11.5	8.6	7.4	7.6	--	8.3	5.4	6.0
	High	19.7	18.2	15.4	11.9	11.2	--	14.4	8.5	9.6
Maine	Low	14.9	9.2	8.0	--	--	--	7.0	--	--
	High	19.7	12.2	13.5	--	--	--	9.2	--	--
Maryland	Low	11.7	7.9	8.5	8.2	9.6	6.0	5.1	6.0	5.0
	High	23.7	19.8	18.0	16.3	12.6	18.3	16.8	13.7	8.2
Massachusetts	Low	21.8	10.4	8.9	7.2	--	6.8	5.7	6.8	7.7
	High	21.8	18.8	17.1	12.6	--	8.3	9.2	12.9	7.7
Michigan	Low	20.0	10.0	10.0	9.0	13.3	9.6	7.0	8.8	--
	High	25.8	19.7	16.0	12.2	14.2	15.7	13.1	13.9	--
Minnesota	Low	10.3	8.3	9.4	--	--	8.0	6.3	6.8	5.2
	High	20.5	17.5	12.3	--	--	13.6	13.1	14.1	8.0
Mississippi	Low	9.0	--	8.0	--	--	--	4.8	--	--
	High	12.0	--	---	--	--	--	7.2	--	--
Missouri	Low	12.9	8.3	8.3	8.1	--	5.1	5.0	5.9	6.6
	High	20.8	13.4	14.1	12.8	--	13.5	12.2	10.1	8.6
Montana	Low	14.1	--	8.4	7.2	--	7.6	--	--	--
	High	17.6	--	14.1	9.0	--	10.8	--	--	--
Nebraska	Low	--	--	--	--	--	--	--	--	--
	High	--	--	--	--	--	--	--	--	--
Nevada	Low	12.7	8.8	6.9	9.4	--	--	8.9	7.5	--
	High	20.2	14.2	14.9	11.9	--	--	11.2	11.2	--
New Hampshire	Low	--	--	--	8.0	--	8.0	6.0	--	--
	High	--	--	--	9.5	--	9.0	8.0	--	--
New Jersey	Low	13.0	8.5	8.9	8.5	8.1	8.1	6.7	5.2	4.3
	High	23.0	19.9	14.9	18.1	8.5	18.1	10.0	11.6	6.8
New Mexico	Low	8.3	9.0	7.6	--	8.3	6.6	7.1	--	--
	High	15.3	12.3	12.3	--	10.4	9.6	8.9	--	--
New York	Low	12.3	10.1	10.5	6.6	9.1	7.5	6.2	6.1	5.2
	High	29.9	29.0	21.7	15.6	17.5	14.7	16.5	12.8	9.2
North Carolina	Low	8.0	6.4	8.0	7.6	10.3	5.0	6.1	5.8	--
	High	--	12.0	15.0	9.8	13.1	12.0	8.8	12.2	--
Puerto Rico	Low	10.8	9.6	--	6.6	--	9.0	2.9	4.7	--
	High	13.2	12.0	--	10.8	--	10.8	4.2	5.6	--

Salary Range by State

State	Range	Occupational Title								
		Director	Supervisor	Engineer	Chemist	Meteorologist	Specialist	Technician	Inspector	Aide
North Dakota	Low	--	--	--	--	--	--	--	--	--
	High	--	--	--	--	--	--	--	--	--
Ohio	Low	9.0	8.5	6.9	5.0	--	7.8	4.3	5.5	4.2
	High	21.1	18.7	17.5	14.5	--	13.5	13.3	13.3	7.5
Oklahoma	Low	9.7	9.9	10.2	6.5	9.2	6.9	5.6	5.7	5.1
	High	19.4	12.6	13.2	12.6	12.7	10.0	9.7	9.1	6.5
Oregon	Low	14.0	10.5	9.0	5.0	10.0	8.5	7.0	8.0	--
	High	21.0	17.0	15.0	13.0	12.8	12.0	11.1	11.0	--
Pennsylvania	Low	11.0	10.4	6.9	7.8	8.5	7.6	5.0	5.8	5.0
	High	27.2	21.6	20.0	14.6	14.6	12.6	9.4	13.0	6.7
Rh. Island	Low	13.4	--	9.4	9.0	--	--	6.5	5.9	--
	High	15.3	--	11.2	10.7	--	--	7.7	8.5	--
South Carolina	Low	--	6.0	--	8.0	--	9.4	6.1	5.3	--
	High	--	16.6	--	10.9	--	12.1	9.7	7.8	--
South Dakota	Low	--	--	8.6	--	--	--	--	--	--
	High	--	--	11.4	--	--	--	--	--	--
Tennessee	Low	13.8	7.2	9.0	8.0	9.0	6.4	4.3	6.0	5.4
	High	17.0	16.9	14.0	12.2	10.8	10.3	8.2	9.0	6.0
Texas	Low	9.7	6.2	9.5	5.2	7.9	6.2	4.5	4.4	3.4
	High	20.0	18.0	18.0	14.0	10.9	14.0	9.7	13.0	10.0
Utah	Low	13.4	--	9.9	7.4	--	7.4	6.7	--	--
	High	18.0	--	14.8	9.9	--	12.1	9.0	--	--
Vermont	Low	--	--	--	--	--	--	--	--	--
	High	--	--	--	--	--	--	--	--	--
Virginia	Low	12.0	9.8	9.0	8.0	--	6.0	7.0	6.5	5.0
	High	17.2	15.6	13.7	14.4	--	12.4	9.1	12.4	6.4
Washington	Low	--	--	--	--	--	--	--	--	--
	High	--	--	--	--	--	--	--	--	--
West Virginia	Low	--	--	--	--	--	--	--	--	--
	High	--	--	--	--	--	--	--	--	--
Wisconsin	Low	17.8	10.0	8.1	8.5	--	7.9	7.0	9.0	--
	High	21.0	17.4	14.6	11.4	--	11.0	10.1	10.0	--
Wyoming	Low	--	--	7.4	--	--	--	6.9	--	--
	High	--	--	9.9	--	--	--	9.0	--	--
Vir. Islands	Low	12.0	--	12.0	--	--	--	9.0	--	--
	High	15.0	--	15.0	--	--	--	11.0	--	--
Amer.Samoa	Low	7.5								4.5

II.D.2

Salary Range by Occupation
(thousands of dollars)

Occupational Title	State Range		Local Range	
	Low	High	Low	High
Director	7.7	29.9	7.3	34.6
Supervisor	7.6	27.0	6.0	29.0
Engineer I	6.2	19.3	8.4	16.4
Engineer II	7.4	22.6	9.0	21.7
Chemist I	6.2	13.6	5.0	14.5
Chemist II	5.0	18.1	6.0	17.2
Meteorologist I	7.6	13.3	7.9	15.3
Meteorologist II	7.0	17.7	8.3	17.5
Specialist I	6.5	19.3	5.1	15.3
Specialist II	5.6	20.4	4.9	16.1
Technician I (Trainee)	2.9	11.1	4.1	13.5
Technician II	3.5	13.9	4.0	13.5
Technician III	5.2	18.5	5.8	16.5
Inspector I (Trainee)	5.2	18.0	4.3	14.9
Inspector II	4.7	13.8	4.5	21.0
Inspector III	6.1	13.6	5.0	17.2
Aide I	4.6	10.0	3.4	8.0
Aide II	4.3	10.0	5.4	11.8
Administrative, Clerical, and Other	2.9	22.6	3.4	21.4

II.D.3

Mean Salary Range for All Agencies

Occupational Title	Low	High
Director	15.3	18.1
Supervisor	13.5	16.6
Engineer I	10.5	12.9
Engineer II	12.5	15.5
Chemist I	8.6	10.6
Chemist II	10.0	12.5
Meteorologist I	10.3	12.2
Meteorologist II	10.9	14.2
Specialist I	8.3	10.6
Specialist II	9.7	12.2
Technician I (Trainee)	7.0	9.0
Technician II	7.9	9.8
Technician III	8.6	10.9
Inspector I (Trainee)	7.4	9.7
Inspector II	8.4	10.3
Inspector III	9.3	11.2
Aide I	5.8	7.0
Aide II	6.7	8.0
Administrative, Clerical, All Other	6.6	8.0

II.E. STATE BY STATE RANKING

The table on the following page ranks each State according to population; the total staff of State and local control agencies; and the amount of FY 1972 money available for air pollution control on the basis of State, local, and total funds.

The following are the top ten States in descending order for each of the above categories:

POPULATION	STAFFING	STATE FUNDS	LOCAL FUNDS	TOTAL FUNDS
California	California	California	California	California
New York	New York	New York	New York	New York
Pennsylvania	Texas	Pennsylvania	Illinois	Illinois
Texas	Pennsylvania	New Jersey	Ohio	Pennsylvania
Illinois	Illinois	Texas	Pennsylvania	Texas
Ohio	New Jersey	Illinois	Michigan	Ohio
Michigan	Ohio	Washington	Missouri	New Jersey
New Jersey	Maryland	Florida	Texas	Michigan
Florida	Michigan	Connecticut	Indiana	Washington
Massachusetts	Florida	Minnesota	Washington	Maryland

II. E. STATE BY STATE RANKING

TOTALS	POPULATION*	STAFF	STATE FUNDS	LOCAL FUNDS	TOTAL FUNDS
1. Alabama	21	26	25	30	26
2. Alaska	51	49	49	34	47
3. Arizona	33	27	26	20	25
4. Arkansas	32	41	35	--	36
5. California	1	1	1	1	1
6. Colorado	30	18	14	19	21
7. Connecticut	24	21		15	11
8. Delaware	47	38	32	--	35
9. Dist. of Columbia	41	37	37	--	39
10. Florida	9	10	8	13	12
11. Georgia	15	23	19	29	24
12. Hawaii	40	43	31	--	42
13. Idaho	43	47	46	--	50
14. Illinois	5	5	6	3	3
15. Indiana	11	15	23	9	15
16. Iowa	25	32	30	28	29
17. Kansas	28	34	39	32	33
18. Kentucky	23	20	16	21	22
19. Louisiana	20	30	28	--	34
20. Maine	38	46	42	--	43
21. Maryland	18	8	11	11	10
22. Massachusetts	10	11	29	14	13
23. Michigan	7	9	15	6	8
24. Minnesota	19	29	10	24	20
25. Mississippi	29	45	45	--	48
26. Missouri	13	16	34	7	14
27. Montana	44	35	40	35	37
28. Nebraska	35	43	50	27	38
29. Nevada	48	36	53	26	40
30. New Hampshire	42	40	44	--	44
31. New Jersey	8	6	4	25	7
32. New Mexico	37	31	33	33	32
33. New York	2	2	2	2	2
34. North Carolina	12	13	22	17	18
35. North Dakota	46	53	51	--	52
36. Ohio	6	7	21	4	6
37. Oklahoma	27	25	38	23	30
38. Oregon	31	19	13	16	19
39. Pennsylvania	3	4	3	5	4
40. Rhode Island	39	42	43	--	46
41. South Carolina	26	24	18	31	27
42. South Dakota	45	50	55	--	54
43. Tennessee	17	14	17	18	16
44. Texas	4	3	5	8	5
45. Utah	36	39	36	--	41
46. Vermont	49	47	41	--	45
47. Virginia	14	17	24	22	23
48. Washington	22	12	7	10	9
49. West Virginia	34	28	12	36	28
50. Wisconsin	16	22	20	12	17
51. Wyoming	50	51	48	--	51
52. Guam	53	54	52	--	53
53. Puerto Rico	26	33	27	--	31
54. Virgin Islands	54	52	47	--	49
Amer. Samoa	55	55	54	--	55

*1970 Census

SECTION III - OPERATIONS

III. A. Percent of Effort by Function

The table shown below provides the percent of effort being devoted to each of the four functional program areas by State, local and multijurisdictional agencies as of April 1971. (A multijurisdictional agency is defined as one which is responsible for air pollution control program activities within two or more political jurisdictions within the same State or within two or more States.)

It is interesting to note that local agencies were devoting 30 percent of their effort to enforcement activities as compared to 16 percent by State agencies. Based on a summary of FY 1972 funding by function of State and local agencies, it is estimated that more efforts will be devoted to enforcement (34 percent local and 20 percent State). Thus, it appears that local agencies continue to carry out a significant part of this function within many States.

Agency Type	Percent of Effort in Each Function				
	Management	Technical	Enforcement	Engineering	Other
State	21	34	16	13	16
Local	14	23	30	13	20
Multijurisdictional	20	25	34	11	10

III. B. Attendence at Training Courses - FY 1972

Listed below are the number of State, local and other personnel, such as those from universities and/or industry attending EPA sponsored short course training at Headquarters and in the field. Normally the courses are one week, but in some instances may be longer. They are especially valuable to new professionals just entering the field of air pollution without such previous training as well as to experienced individuals who need to keep abreast of constantly changing technical developments.

Alabama	54	Nebraska	25
Alaska	34	Nevada	13
Arizona	10	New Hampshire	5
Arkansas	13	New Jersey	71
California	171	New Mexico	13
Colorado	131	New York	169
Connecticut	15	North Carolina	381
Delaware	4	North Dakota	3
D. C.	75	Ohio	178
Florida	171	Oklahoma	48
Georgia	78	Oregon	17
Hawaii	8	Pennsylvania	105
Idaho	3	Rhode Island	10
Illinois	122	South Carolina	42
Indiana	71	South Dakota	8
Iowa	20	Tennessee	78
Kansas	38	Texas	197
Kentucky	35	Utah	3
Louisiana	13	Vermont	13
Maine	10	Virginia	93
Maryland	94	Washington	120
Massachusetts	53	West Virginia	6
Michigan	25	Wisconsin	67
Minnesota	64	Wyoming	14
Mississippi	10	Virgin Islands	6
Missouri	115	Puerto Rico	4
Montana	16	Foreign	74

TOTAL 3216

III. C. Training by Profession *

The table shown below distributes the numbers of persons receiving short course training according to their principal profession and where they come from. The relatively large number of engineers in the "all other" category represents, for the most part, persons from educational institutions preparing for careers in air pollution control.

PROFESSION	STATE	LOCAL	ALL OTHERS	TOTAL
Administrators	40	80	81	201
Chemists	116	36	159	311
Engineers	426	175	649	1250
Health Educators	10	5	14	29
Indus. Hygienists	17	8	14	39
Meteorologists	30	8	263	301
Phys. Scientists	20	5	14	39
Sanitarians	55	164	14	233
Statisticians	0	5	7	12
Technicians	153	210	80	443
Others	125	184	49	358
TOTAL	992	880	1344	3216

*Projected, based on 3/31/72 actual and FY 1972 total

III. D. Major Sources of Pollution

The following table indicates the major sources of air pollution within each State. This table does not represent all sources of pollution. Of the sources listed in the following table; the five major categories are:

Open Burning
Transportation
Power Generation
Industrial Processes
Petroleum Refineries and Storage

III .D. MAJOR SOURCES OF AIR POLLUTION WITHIN STATES

STATE	Industrial Processes	Open Burning	Incinerator	Transportation	Asphalt Batching	Rock & Stone Handling	Copper Smelters	Aluminium Smelters	Wood Working	Cotton Gins	Power Generation	Fuel Burning	Phosphates	Rock Crushing Plants	Animal Rendering & Processing	Petroleum Refineries & Storage	Steel Mills	Quarry Operations	Fertilizer Manufacture	Peanut Shellers	Sugar Plants	Cement Plants	Grain Mills	Bauxite Processing	Space Heating	Gas Flaring
Alabama	X	X	X			X																				
Alaska	X			X	X						X														X	
Arizona				X			X	X			X											X				
Arkansas					X				X	X												X	X	X		
California	X	X		X	X	X				X	X	X		X	X	X	X	X	X			X	X	X	X	
Colorado	X			X							X														X	
Connecticut	X	X	X	X							X															
Delaware	X	X									X	X													X	
D. C.			X	X							X															
Florida											X		X								X					
Georgia			X		X	X				X										X						
Hawaii		X		X								X										X				
Idaho	X	X	X		X				X				X		X				X			X	X			
Illinois		X														X	X	X	X							
Indiana					X						X					X										
Iowa	X		X												X				X			X	X			
Kansas	X	X									X					X										
Kentucky																										
Louisiana	X	X		X												X					X	X	X			

III .D. MAJOR SOURCES OF AIR POLLUTION WITHIN STATES

	Industrial Processes	Open Burning	Incinerator	Transportation	Asphalt Catching	Rock & Stone Handling	Copper Smelters	Aluminium Smelters	Wood Working	Cotton Gins	Power Generation	Fuel Burning	Phosphates	Rock Crushing Plants	Animal Rendering & Processing	Petroleum Refineries & Storage	Steel Mills	Quarry Operations	Fertilizer Manufacture	Peanut Shellers	Sugar Plants	Cement Plants	Grain Mills	Bauxite Processing	Space Heating	Gas Flaring
Maine		X										X														
Maryland	X		X		X						X	X											X		X	
Massachusetts	X				X						X	X														
Michigan	X				X											X	X					X				
Minnesota	X																X					X	X			
Mississippi										X	X															
Missouri	X	X			X							X														
Montana		X	X			X						X				X					X					
Nebraska		X										X											X			
Nevada		X	X		X	X		X				X										X	X			
New Hamp.		X										X	X													
New Jersey	X	X			X							X													X	
New Mexico						X		X			X	X				X										
New York	X	X	X		X							X						X							X	
N. Carolina		X			X	X			X			X							X				X			
North Dakota												X				X										
Ohio			X		X								X													
Oklahoma		X	X	X	X																					
Oregon		X	X	X	X	X					X													X		

III .D. MAJOR SOURCES OF AIR POLLUTION WITHIN STATES

	Industrial Processes	Open Burning	Incinerator	Transportation	Asphalt Batching	Rock & Stone Handling	Copper Smelters	Aluminium Smelters	Wood Working	Cotton Gins	Power Generation	Fuel Burning	Phosphates	Rock Crushing Plants	Animal Rendering & Processing	Petroleum Refineries & Storage	Steel Mills	Quarry Operations	Fertilizer Manufacture	Peanut Shellers	Sugar Plants	Cement Plants	Grain Mills	Bauxite Processing	Space Heating	Gas Flaring
Pennsylvania	X		X	X							X	X				X	X					X			
Rhode Island	X	X									X	X														
S. Carolina	X	X																				X				
South Dakota																										
Tennessee		X		X			X	X			X											X				
Texas		X		X			X		X	X						X	X		X			X				
Utah		X									X											X				
Vermont		X				X					X			X				X								
Virginia	X	X		X					X		X	X							X							
Washington	X	X		X	X	X	X	X	X		X				X	X						X	X			
West Va.	X				X				X		X															
Wisconsin											X												X			
Wyoming		X			X				X		X				X	X						X				
Guam			X	X							X	X														
Puerto Rico				X							X										X					
Vir. Islands				X	X			X			X			X		X						X				
Amer. Samoa				X																						

III. E. Air Quality Surveillance

States are required to place an air quality surveillance system, utilizing various kinds of monitoring equipment, in operation no later than two years after the approval of their implementation plans.

The following tabulation is the best currently available estimate of the amount of air pollution monitoring equipment in operation in each State. This information was obtained from a special analysis* which wherever possible, used data contained in the initial January 1972 formal submission of State implementation plans. In those instances where there was insufficient or unclear reporting, other sources of information were used and have been footnoted. Since States are continually increasing their surveillance capabilities, it is to be expected that there is, in most instances, more equipment in operation today than at the time when the plans were submitted or when previous inventories were made. However, this fact is not critical to the purpose of the tabulations on the following pages, which is to give some idea as to the impact of the Federal air surveillance requirements on the States in terms of added equipment needs and to provide a national summary.

The minimum requirements upon which the needs are based are those called for in the operation of a surveillance system for monitoring pollutants within an air quality control region as specified in Federal regulations for the preparation and submission of State implementation plans.** The numbers and types of equipment are based on the pollutant priority classification and population of each region.

It is important to note that it was not possible to make an individual determination of instrument ownership within each AQCR within each State. Therefore, some AQCR's may possess more than the required number of instruments while others have less. Likewise additional items of equipment may be necessary to provide adequate emergency episode monitoring capabilities or for purposes of special or selected sampling needs.

Table III.E.2. indicates the general cost range of various individual items of monitoring equipment and the cumulative national cost based on the needs reflected in the above tabulation using the median price range. Each item is listed at today's prices and is subject to change.

*The Impact of State Implementation Plan Requirements on Selected Air Pollution Monitoring Instrument Manufacturers; Walter W. Kovalick, Jr., April 13, 1972

**Federal Register, Volume 36, Page 15486, August 14, 1971

III.E.1 Required & Existing Equipment for Air Quality Monitoring

POLLUTANT--------	SUSPENDED PARTICULATE			SULFUR DIOXIDE									CARBON MONOXIDE			PHOTOCHEMICAL OXIDANTS			NITROGEN DIOXIDE		
MONITOR----------	High Volume			Tape			Bubblers			Cont.			Continuous			Continuous			Bubblers		
State	*R	*E	*N	R	E	N	R	E	N	R	E	N	R	E	N	R	E	N	R	E	N
Alabama	43	61	0	15	5	10	18	1	17	5	0	5	3	0	3	5	0	5	0	0	0
Alaska	11	6	5	1	0	1	6	1	5	1	0	1	1	0	1	0	0	0	0	0	0
Arizona	21	33	0	8	7	1	17	4	13	6	7	0	4	2	2	4	2	2	13	4	9
Arkansas	18	20	0	4	2	2	7	3	4	0	0	0	0	0	0	1	0	1	3	0	3
California	64	70	0	22	0	22	15	24	0	2	16	0	28	41	0	32	68	0	20	0	20
Colorado(1)	29	88	0	9	16	0	10	1	9	1	2	0	3	1	2	3	1	2	0	0	0
Connecticut	23	60	0	10	39	0	17	19	0	6	6	0	6	2	4	6	2	4	19	2	17
Delaware	7	14	0	2	14	0	5	10	0	2	14	0	2	4	0	2	4	0	6	14	0
D. C.(1)	8	7	1	3	7	0	6	0	6	2	3	0	2	2	0	2	1	1	8	2	6
Florida(2)(3)	33	87	0	13	6	7	19	21	0	6	13	0	0	4	0	5	4	1	20	13	7
Georgia	55	39	16	17	5	12	32	11	21	11	3	8	0	3	0	1	1	0	17	6	11
Hawaii	3	7	0	1	1	0	1	5	0	0	1	0	0	1	0	0	1	0	0	5	0
Idaho	18	34	0	3	1	2	8	5	3	2	5	0	1	1	0	0	1	0	5	5	0
Illinois	68	114	0	19	22	0	47	30	17	20	25	0	12	9	3	12	6	6	21	3	18
Indiana	58	91	0	17	24	0	40	43	0	13	18	0	5	0	5	7	0	7	26	37	0
Iowa	43	31	12	9	1	8	16	4	12	2	1	1	0	1	0	2	1	1	3	1	2
Kansas	39	34	5	9	1	8	7	8	0	0	0	0	2	3	0	4	1	3	0	3	0
Kentucky	40	65	0	10	17	0	20	58	0	5	10	0	0	3	0	3	4	0	14	51	0
Louisiana(2)	9	24	0	3	5	0	6	5	1	1	15	0	0	0	0	1	0	1	0	5	0
Maine	14	6	8	3	0	3	12	5	7	4	2	2	0	0	0	0	0	0	0	0	0
Maryland (3)	33	57	0	15	20	0	28	21	7	10	21	0	7	11	0	7	10	0	20	8	12
Massachusetts	50	46	4	22	12	10	35	46	0	13	8	5	6	3	3	6	3	3	36	41	0
Michigan	36	80	0	11	1	10	23	6	17	10	16	0	0	0	0	1	0	1	25	6	19
Minnesota	29	22	7	11	58	0	19	15	4	6	7	0	4	4	0	0	3	0	10	9	1
Mississippi	18	17	1	6	0	6	11	1	10	3	0	3	0	0	0	4	0	4	3	0	3
Missouri	35	68	0	15	15	0	13	6	7	4	7	0	6	10	0	6	9	0	10	10	0
Montana	13	7	6	3	1	2	11	2	9	3	2	1	0	0	0	0	0	0	0	0	0
Nebraska	12	29	0	3	3	0	6	1	5	1	0	1	0	0	0	0	1	0	7	1	6
Nevada	14	34	0	3	2	1	7	6	1	2	0	2	1	1	0	1	2	0	6	5	1
New Hampshire	12	25	0	3	0	3	10	4	6	3	0	3	0	0	0	0	0	0	0	1	0
New Jersey	24	50	0	8	22	0	19	0	19	7	21	0	7	22	0	5	4	1	22	0	22
New Mexico	21	42	0	3	2	1	14	6	8	3	3	0	1	2	0	3	0	3	0	6	0
New York	74	230	0	28	47	0	41	6	35	20	45	0	15	22	0	21	9	12	40	7	33
N. Carolina(1)	53	116	0	17	29	0	10	47	0	1	2	0	0	4	0	2	5	0	0	123	0
N. Dakota	6	15	0	2	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0

* R - Required (minimum) E - Existing N - Needed

III.E.1 Required & Existing Equipment for Air Quality Monitoring

POLLUTANT--------	SUSPENDED PARTICULATE						SULFUR DIOXIDE						CARBON MONOXIDE			PHOTOCHEMICAL OXIDANTS			NITROGEN DIOXIDE		
MONITOR----------	High Volume			Tape			Bubblers			Cont.			Continuous			Continuous			Bubblers		
State	R	E	N	R	E	N	R	E	N	R	E	N	R.	E	N	R	E	N	R	E	N
Ohio	89	202	0	33	12	21	56	35	21	20	13	7	0	4	0	17	5	12	47	32	15
Oklahoma	28	79	0	8	3	5	8	8	0	0	0	0	0	3	0	4	2	2	0	0	0
Oregon	23	64	0	10	5	5	7	5	2	1	1	0	3	3	0	3	2	1	0	0	0
Pennsylvania	75	107	0	36	29	7	32	0	32	15	28	0	12	19	0	12	19	0	50	0	50
Rhode Island	10	18	0	4	0	4	7	18	0	2	0	2	0	0	0	0	0	0	10	18	0
S. Carolina	40	55	0	9	3	6	19	20	0	4	2	2	0	0	0	1	0	1	0	0	0
S. Dakota	6	2	4	1	0	1	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0
Tennessee	46	92	0	15	4	11	20	5	15	6	3	3	0	4	0	5	4	1	13	16	0
Texas	57	142	0	21	3	18	40	52	0	14	0	14	2	0	2	20	0	20	17	0	17
Utan	13	8	5	4	5	0	11	4	7	3	5	0	2	4	0	2	4	0	9	4	5
Vermont	6	7	0	2	1	1	6	1	5	2	2	0	0	1	0	0	1	0	0	0	0
Virginia	51	73	0	18	11	7	28	23	5	9	2	7	7	3	4	7	4	3	27	20	7
Washington	35	71	0	14	18	0	14	0	14	4	21	0	7	9	0	5	7	0	10	0	10
West Virginia	34	34	0	5	18	0	16	13	3	3	1	2	0	1	0	0	3	0	0	0	0
Wisconsin	34	71	0	12	0	12	14	27	0	3	0	3	0	1	0	4	13	0	10	5	5
Wyoming	7	6	1	2	0	2	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0
Guam	1	0	1	0	0	0	3	0	3	1	0	1	0	0	0	0	0	0	0	0	0
Puerto Rico(1)	4	1	3	1	0	1	3	0	3	1	0	1	0	0	0	0	0	0	0	0	0
Virgin Islands	4	6	0	1	1	0	3	2	1	1	0	1	0	0	0	0	0	0	0	0	0
Amer. Samoa	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1598	2767	80	524	499	211	853	640	362	264	351	75	149	208	29	226	207	98	547	463	299

(1) The 1969 Inventory of Air Pollution Monitoring Equipment operated by State and Local Agencies was used to partially or fully estimate existing network.
(2) Raw data from the Annual Survey of Air Pollution Monitoring, July 1, 1969 - June 30, 1970 was used where possible.
(3) Based on consistencies in available data, certain assumptions were made regarding existing equipment in one or more AQCR's.

III. E. 2.

COST OF NEEDED EQUIPMENT**

Type of Equipment	Number Needed	Cost Range per Item	Cumulative Median Cost
Hi-Volume Sampler	80	$ 150 - $ 500*	$ 26,000
Tape Sampler	211	$ 400 - $1,000*	$148,000
SO_2 Bubbler	362	$ 300 - $ 800	$199,000
SO_2 Continuous	75	$1,500 - $5,700*	$270,000
CO Continuous	29	$1,700 - $4,500*	$ 90,000
Oxidant Continuous	98	$3,000 - $5,240*	$404,000
NO_2 Bubbler	299	$ 300 - $ 800	$164,000
TOTAL			$1,301,000

*Higher figure is with reader and recorder

**Based on Field Operations Guide for Automatic Air Monitoring Equipment, EPA, November 1971, and equipment company catalogs

III. F. Status of Implementation Plans

The following tabulation lists the status of the submission of State implementation plans required by the Clean Air Act of 1970 for the implementation, maintenance and enforcement of national ambient air quality standards within each air quality control region/or portion thereof, within a State.

Such plans were due by January 30, 1972, nine months after EPA promulgated standards,* for the following pollutants:

1. Sulfur Oxide
2. Particulate matter
3. Carbon Monoxide
4. Photochemical oxidents
5. Hydrocarbons
6. Nitrogen Dioxide

An additional period of not to exceed 18 months may be allowed for the adoption and submittal of that portion of a plan relating to implementation of secondary ambient air quality standards. State plans must provide for attainment of national primary ambient air quality standards within 3 years after the date of EPA approval of such plans, except that a 2-year extension of this deadline may be granted by the Administrator upon application by a Governor. A request for such an extension must be based upon the inability of one or more emission sources (or classes of moving sources) to comply with the requirements of the State plan to achieve a primary standard. It must demonstrate that presently available or planned control technology or other reasonable alternative control techniques will not enable the standards to be achieved within the three year time period.

State plans must provide for attainment of national secondary ambient air quality standards within a reasonable time. Within 4 months from the date that State plans are required to be submitted, the Administrator must approve or disapprove such plans or portions thereof. The Administrator must propose and promulgate regulations (substitute plans) for those plans, or portions of plans, which he does not approve unless, prior to such promulgation, a State adopts and submits a plan or a revision of a plan that meets the Federal requirements. Where necessary, proposed regulations have been published for all but 3 States whose plans were not approved.

Considerable technical assistance was provided by each of the ten EPA Regional Offices to the States in preparing their plan and/or in providing financial support for contractual development of all or portions of the plan. Information is as of July 31, 1972.

*See Section I.F. Significant EPA Actions Affecting State Programs.

III. F. STATUS OF IMPLEMENTATION PLANS

STATE	Date Plan Submitted	Approved	Extension Requested*	How Prepared		
				State	State/EPA/Cont.**	State/EPA
Alabama	1/28	5/31			X	
Alaska	4/23	***			X	
Arizona	1/31				X	
Arkansas	1/31				X	
California	2/28		2 years for San Francisco Bay Area; Sacramento;Southern Coast	X		
Colorado	1/28	***		X		
Connecticut	3/3	5/31	18 months for New Jersey-New York Connecticut; Hartford-New Haven-Springfield			X
Delaware	1/28			X		
D.C.	1/28			X		
Florida	1/28	5/31	2 years for Tampa; Miami	X		
Georgia	1/27			X		
Hawaii	2/1		18 months Hawaii		X	
Idaho	1/30		18 months E. Wash-No. Idaho; 2 years; E. Wash.-No. Idaho; 2 years State		X	
Illinois	2/3			X		
Indiana	2/1		18 Mo. Chicago; Indianapolis 2 years Chicago; Indianapolis Louisville		X	
Iowa	1/26		2 years Dubuque; Omaha-Council Bluffs	X		
Kansas	1/31		2 years for Kansas City	X		
Kentucky	2/15	***				X
Louisiana	1/28				X	
Maine	1/31				X	
Maryland	1/28		18 months for Baltimore 2 years for Baltimore; Nat'l Capitol	X		
Massachusetts	1/31		18 months Boston - 2 yrs.Boston		X	
Michigan	1/31			X		
Minnesota	1/31		2 years for Minneapolis-St. Paul		X	
Mississippi	2/4	5/31			X	

* 2 years (to attain a primary st'd)
18 months (to submit plan for attaining secondary standards)

**Contractual support provided
***Promulgation of EPA regulations not necessary

STATE	Date Plan Submitted	Approved	Extension Requested	How Prepared		
				State	State/EPA/Cont.**	State/EPA
Missouri	1/28		2 years for Kansas City; St. Louis		X	X
Montana	3/1					
Nebraska	1/28		2 years for Omaha-Council Bluffs		X	
Nevada	1/31				X	
New Hampshire	1/27	5/31			X	
New Jersey	1/31		18 months for New Jersey-New York-Connecticut; Philadelphia			
			2 years for New Jersey-New York-Connecticut; Philadelphia		X	
New Mexico	1/31					
New York	1/28		18 months Buffalo; New Jersey-New York-Connecticut	X		
				X		X
N. Carolina	1/26	5/31				
North Dakota	1/27	5/31				
Ohio	1/31	7/27	18 months Cleveland		X	
			2 years Dayton; Toledo; Cleveland; Cincinnati; Columbus		X	
Oklahoma	1/28				X	
Oregon	1/28	5/31			X	
Pennsylvania	1/28		18 months for Philadelphia; Pittsburgh			
			2 years for Pittsburgh		X	
Rhode Island	1/31				X	
S. Carolina	1/28					X
South Dakota	1/31	***		X		
Tennessee	1/28					
Texas	1/28		2 years for Houston; Corpus Christi San Antonio		X	
				X		
Utah	1/28				X	
Vermont	1/27				X	
Virginia	1/28		2 years for State Capitol; Hampton Roads			
			2 years for Spokane; Puget Sound			X
Washington	1/28			X		
West Virginia	1/28	5/31				

July 31, 1972

State	Date Plan Submitted	Approved	Extension Requested	How Prepared		
				State	State/EPA/Cont.**	State/EPA
Wisconsin	1/31				X	
Wyoming	1/31					X
Guam	1/28	5/31				X
Puerto Rico	1/31	5/31			X	
Vir. Islands	1/31					X
Amer. Samoa	2/1	5/31				X

July 31, 1972

III. G. Priority I Air Quality

Control Regions

Table 1 reflects the number of air quality control regions classified as Priority I within each State on a pollutant by pollutant basis and the population residing therein. These regions exceed national primary ambient air quality standard for a given pollutant which, allowing for an adequate margin of safety, is necessary for the protection of public health.

All of the population residing within a Priority I AQCR may not be continuously subjected to air which exceeds the primary standard. Persons living in outlying areas of a region furtherest from pollutant sources may breathe air of a better quality than those living closer to such sources. However, assuming these individuals must travel and work thoughout the region, they ultimately will be exposed to the lower quality air.

Table 2 provides the percentage of the population of each State residing within Priority I regions for each pollutant. It is possible that from time to time there will be changes in the regional classifications as methods for determining the presence of pollutant concentrations in the ambient air become more sophisticated and indicate that reclassifications are necessary.

III. G. 1. PRIORITY I AIR QUALITY CONTROL REGIONS
(Population in thousands)*

State	Total Regions	Part.	Pop.	SO_x	Pop.	CO	Pop.	NO_2	Pop.	O_x (HC)	
Alabama	7	5	2930	2	1094	1	1018	0	0	2	1423
Alaska	4	2	213	1	41	1	69	0	0	0	0
Arizona	4	4	1773	4	1773	2	1519	3	1684	2	1519
Arkansas	7	1	48	0	0	0	0	1	48	1	48
California	11	3	11764	0	0	5	18324	3	15,495	7	19229
Colorado	8	4	1922	1	37	1	1237	1	37	1	1237
Connecticut	4	2	2506	2	2506	2	2506	2	2506	2	2506
Delaware	2	1	386	1	386	1	386	1	386	1	386
D. C.	1	1	746	1	746	1	746	1	746	1	746
Florida	6	3	3036	2	1947	0	0	2	3851	2	1572
Georgia	9	7	3645	3	2458	0	0	2	2111	1	195
Hawaii	1	0	0	0	0	0	0	0	0	0	0
Idaho	4	3	529	2	310	1	112	0	0	0	0
Illinois	11	7	9251	5	9064	2	7672	3	7694	2	7672
Indiana	10	8	4108	6	3749	2	1729	4	1892	4	1892
Iowa	12	7	2022	1	90	0	0	2	219	1	665
Kansas	7	6	1960	0	0	1	455	0	0	2	1019
Kentucky	9	5	1689	1	668	0	0	2	955	2	955
Louisiana	3	0	0	1	2760	0	0	0	0	1	2760
Maine	5	3	903	2	564	0	0	0	0	0	0
Maryland	6	3	3470	3	3470	2	3261	2	3261	2	3261
Mass.	6	5	5539	4	4902	2	2864	4	4521	2	2864
Michigan	6	3	4659	3	4659	0	0	3	6591	1	118
Minnesota	7	2	2190	2	2458	1	1865	1	1865	0	0
Miss.	4	2	1213	1	1178	0	0	1	35	2	1213
Missouri	5	3	3550	1	1815	2	2757	1	1815	2	2757
Montana	5	2	318	2	304	0	0	0	0	0	0
Nebraska	4	1	453	0	0	0	0	1	453	0	0
Nevada	3	3	482	2	332	1	270	1	270	1	270
New Hamp.	3	2	653	2	653	0	0	0	0	0	0
New Jersey	4	3	6546	3	6879	3	6879	3	6546	2	6328
New Mexico	8	4	579	3	240	1	124	1	78	2	463
New York	8	4	15525	2	12782	2	12782	3	13,884	4	15077
N. C.	8	6	3811	0	0	0	0	0	0	1	862
N. D.	2	0	0	0	0	0	0	0	0	0	0
Ohio	14	9	8679	5	5065	0	0	5	7406	5	7406
Oklahoma	8	2	1511	0	0	0	0	0	0	2	1511
Oregon	5	1	1452	1	1452	1	1452	0	0	1	1452
Penna.	6	6	11676	2	6680	2	6680	5	10725	2	6680
Rh. Island	1	1	922	1	922	0	0	1	922	0	0
S. C.	10	5	1456	2	419	0	0	0	0	1	184
S. D.	4	0	0	0	0	0	0	0	0	0	0
Tenn.	6	6	3834	2	1377	0	0	2	962	2	1755
Texas	12	4	3588	5	4372	1	366	3	5401	7	8419
Utah	3	2	901	2	901	1	53	2	901	1	848
Vermont	2	0	0	0	0	0	0	0	0	0	0
Virginia	7	6	3915	2	1258	1	911	3	2650	3	2650
Washington	6	4	2870	3	2559	3	2559	1	1907	2	2156
West Va.	10	6	1004	2	186	0	0	0	0	0	0
Wisconsin	8	3	1942	1	500	0	0	2	1791	1	1743
Wyoming	3	0	0	0	0	0	0	0	0	0	0
P. Rico	1	1	2690	1	2690	0	0	0	0	0	0
Amer.Samoa	1	0	0	0	0	0	0	0	0	0	0
Guam	1	0	0	0	0	0	0	0	0	0	0
Vir. Isds.	1	1	63	1	63	0	0	0	0	0	0

* Based on 1970 County Census figures correct to the nearest thousand

III.G.2. PERCENTAGE OF (TOTAL) STATE POPULATION RESIDING WITHIN PRIORITY I REGIONS FOR EACH POLLUTANT

STATE	TOTAL * POPULATION	PARTICULATE	SO_x	CO	NO_2	O_x (HC)
Alabama	3373	86 %	32 %	30 %	0 %	42 %
Alaska	296	71	10	23	0	0
Arizona	1773	100	100	85	94	85
Arkansas	1887	2	0	0	2	2
California	19717	59	0	92	78	97
Colorado	2178	88	1	56	1	56
Connecticut	2989	83	83	83	83	83
Delaware	543	71	71	71	71	71
D. C.	746	100	100	100	100	100
Florida	6671	45	29	0	57	23
Georgia	4493	81	54	0	46	4
Hawaii	749	0	0	0	0	0
Idaho	693	70	44	16	0	0
Illinois	10981	84	82	59	70	69
Indiana	5144	79	73	33	36	36
Iowa	2829	71	3	0	7	23
Kansas	2220	88	0	20	0	46
Kentucky	3136	53	21	0	30	30
Louisiana	3560	0	77	0	0	77
Maine	1093	82	52	0	0	0
Maryland	3929	88	88	82	82	82
Massachusetts	5688	97	86	50	79	50
Michigan	8778	53	53	0	75	1
Minnesota	3768	58	65	49	49	0
Mississippi	2163	56	54	0	1	56
Missouri	4637	76	39	59	39	59
Montana	682	46	44	0	0	0
Nebraska	1467	30	0	0	30	0
Nevada	482	100	68	56	56	56
New Hampshire	724	90	90	0	0	0
New Jersey	7097	92	97	97	92	89
New Mexico	1010	57	23	12	8	45
New York	18008	86	70	70	77	83
N. Carolina	4844	77	0	0	0	17
N. Dakota	610	0	0	0	0	0
Ohio	10518	82	48	0	70	70
Oklahoma	2489	60	0	0	0	60
Oregon	2056	70	70	70	0	70
Pennsylvania	11676	100	57	57	91	57
Rh. Island	922	100	100	0	100	0
S. Carolina	2515	57	16	0	0	7
S. Dakota	663	0	0	0	0	0
Tennessee	3834	100	35	0	25	45
Texas	10998	32	39	3	49	76
Utah	1060	85	85	5	85	80
Vermont	437	0	0	0	0	0
Virginia	4543	86	28	20	58	58
Washington	3358	85	76	76	56	64
West Virginia	1652	60	11	0	0	0
Wisconsin	4366	44	11	0	41	39
Wyoming	328	0	0	0	0	0
Guam	87	0	0	0	0	0
Puerto Rico	2690	100	100	0	0	0
Vir. Islands	63	100	100	0	0	0
Amer. Samoa	28	0	0	0	0	0

* Based on 1970 County Census figures correct to the nearest thousand

III. H. CALCULATED ESTIMATES OF EMISSIONS FOR SELECTED POLLUTANTS

The following table presents, on a State by State basis, calculated emission estimates for 1968 for five major pollutants: particulate matter, sulfur oxide, carbon monoxide, nitrogen oxide and hydrocarbons.

The estimates are not actual measured pollutant emissions within each State, as this information is impossible to obtain.

The estimates were obtained by applying average emission factors to published data on fuel consumption, vehicle travel, solid waste disposal and industrial production. One of the principal differences between the totals in this table and those of an earlier nation-wide report was the previous omission of a miscellaneous category which included emissions from such sources as forest fires, structural fires, coal refuse burning and agricultural burning.

By early 1973, EPA will have completed a more comprehensive State by State emission inventory based upon information provided by the States and actual surveys by personnel of the Office of Air Programs. This inventory will include the four territories not currently included and will separate the District of Columbia from Maryland.

III. H. 1968
CALCULATED ESTIMATES OF EMISSIONS
FOR SELECTED POLLUTANTS
(thousands metric tons)
(Annual Emissions)

STATE	Particulates	SO_x	CO	NO_x	Hydrocarbons
Alabama	680	540	1900	330	430
Alaska	19	22	100	19	28
Arizona	53	2600	1100	98	200
Arkansas	89	40	1300	130	300
California	580	710	11000	1200	2800
Colorado	260	69	1200	150	280
Connecticut	70	310	1400	190	330
Delaware	33	120	330	45	99
Florida	290	790	3400	470	800
Georgia	240	410	2700	330	600
Hawaii	15	58	260	38	69
Idaho	50	270	430	43	97
Illinois	1400	2800	5400	860	1400
Indiana	1600	1800	3100	520	800
Iowa	220	360	1600	220	380
Kansas	160	140	1500	180	410
Kentucky	440	900	1600	290	410
Louisiana	160	360	2900	300	860
Maine	40	80	550	66	120
Maryland & D. C.	620	660	2000	290	500
Massachusetts	110	690	2300	340	560
Michigan	1200	1400	4600	660	1100
Minnesota	310	420	2000	260	490
Mississippi	100	92	1200	150	320
Missouri	260	760	2600	340	630
Montana	64	900	500	53	130
Nebraska	93	36	890	100	220
Nevada	15	250	350	42	83
New Hampshire	20	63	370	39	93
New Jersey	170	1000	3400	480	990
New Mexico	69	280	1100	98	310
New York	1100	1800	6200	930	1500
North Carolina	270	440	2700	380	610
North Dakota	84	56	350	50	92

STATE	Particulates	SO_x	CO	NO_x	Hydrocarbons
Ohio	2200	2800	5600	900	1400
Oklahoma	73	240	1800	170	470
Oregon	80	48	1200	120	280
Pennsylvania	2500	1900	5500	800	1400
Rhode Island	22	71	400	47	93
South Carolina	110	85	1400	140	320
South Dakota	57	14	390	37	90
Tennessee	360	970	2100	340	490
Texas	560	1100	10000	910	3000
Utah	140	680	610	79	160
Vermont	5	5	170	19	54
Virginia	220	250	2400	290	550
Washington	130	500	1800	180	450
West Virginia	500	820	960	230	240
Wisconsin	210	340	2000	240	500
Wyoming	20	46	320	42	98
Total	18071	31095	108970	14235	27636

III. I. Tax Incentives

The following table indicates the various tax incentives offered by the States to encourage industry to construct treatment facilities to control air pollution.

As may be seen in the summary, 24 States provide for property tax exemptions; 14 States provide a sales and use tax exemption; 6 States allow franchise or income tax credits; and 8 States offer a franchise or income tax deduction.

III. I. INCENTIVES FOR INDUSTRY

STATE	PROPERTY TAX EXEMPTION	SALES AND USE TAX EXEMPTION	FRANCHISE OR INCOME TAX CREDIT	FRANCHISE OR INCOME TAX DEDUCTION
Alabama	X	X		X
Alaska	-			
Arizona				X
Arkansas		X		
California				X
Colorado	-			
Connecticut	X	X	X	
Delaware	-			
D. C.	-			
Florida	X			
Georgia	X	X		
Hawaii	X			
Idaho	X			
Illinois	X	X		
Indiana	X	X		
Iowa	-			
Kansas	-			
Kentucky	-			
Louisiana	-			
Maine		X		
Maryland	-			
Massachusetts	X			
Michigan	X	X		
Minnesota	X		X	
Mississippi	-			
Missouri		X		
Montana	X			
Nebraska	-			
Nevada	-			
New Hampshire	X			
New Jersey	X			
New Mexico	-			
New York	X		X	
N. Carolina	X			X
North Dakota	-			
Ohio	X	X		X
Oklahoma			X	
Oregon	X		X	
Pennsylvania		X		
Rhode Island	X	X		X
S. Carolina	X			
South Dakota	-			
Tennessee	X			
Texas	-			
Utah	-			
Vermont	X			
Virginia				X
Washington		X		
West Virginia		X	X	
Wisconsin	X			X
Wyoming	X			
Guam				
Puerto Rico				
Virgin Islands				

III. J. TRANSPORTATION CONTROLS

Most of the control techniques presented in the Air Quality Implementation Plans submitted by the States are designed to abate pollutants at the source. Among these are emission control devices on automobiles, fuel switching procedures during air pollution episode emergencies, electrostatic precipitators, scrubbers in stacks, and similar strategies and devices to reduce pollutants before they reach the air.

The following table shows which States have included in their implementation plan, information on strategies for reducing emissions from motor vehicles by some means in addition to the reductions afforded by the Federal vehicle pollution control program, and gives an indication as to the general type of control strategies being considered. In almost every case the control strategy has been related only to certain, regions in the State where additional emission reductions are deemed necessary. In many instances, final details of the transportation control strategy have not been provided in the implementation plan. States will be required to submit detailed transportation control plans and schedules for implementation at the time of their first semiannual progress report in mid-February 1973.

Transportation controls strategies have been summarized into the following categories:

Traffic control: this includes such actions as converting to one-way streets, use of express lanes, and graduated tolls depending on the number of passengers.

Parking restrictions: includes such things as banning on-street parking, increasing parking fees, and graduating parking fees according to the number of passengers.

Retrofit systems: requiring the installation of devices or systems on older cars to reduce their emissions.

Testing and Inspection: testing for emissions or inspecting to ensure that installed control systems are operating properly.

Gaseous Fuel Systems: requiring fleets, such as taxis, government fleets, or a large company fleet, to convert to a fuel system such as LPG, or liquid natural gas.

Improve public transportation: either by improving present systems, or going to new systems.

Work Schedule Changes: staggering working hours to reduce traffic volume at any given time and, thus, speed traffic flow. This may also be accomplished in conjunction with instituting a four day work week

Land Use Controls: includes considerations relating to the siting of highways, parking areas, and other land areas likely to involve dense traffic concentrations having substantial impact on community air quality.

III. J.

TRANSPORTATION CONTROLS

State/Region	Traffic Controls	Parking Restrictions	Retrofit Systems	Testing and Inspection	Gaseous Fuel Systems	Improve Public Transportation	Work Schedule Changes	Land Use Controls
Arizona								
Phoenix-Tucson	P	C		P	P		C	
California								
South Coast	P	P	A	P	P	P	P	P
San Francisco Bay Area	A	P	A	P	P	A	P	P
San Diego	P	P	A	P	P	P	P	P
San Joaquin			P	P				
Sacramento			P	P				
Colorado								
Denver	C		P	P		C		
D.C.								
All	P	P		P	P	P		
Illinois								
Chicago	P			P				
Maryland								
Baltimore & D. C.	C	C	C	C	C	C	C	C
Massachusetts								
Boston	C	P		P		P		
Minnesota								
St. Paul	C	C		C		C	C	
Nevada								
Clark-Mohave-Yuma	A		P	P		A		
New Jersey								
All				A				
New York								
NY-NJ-Conn.		C			C	C		
Ohio								
Dayton	C	C	C	C		C		

C - Considered
P - Proposed
A - Adopted

TRANSPORTATION CONTROLS (Cont.)

State/Region	Traffic Controls	Parking Restrictions	Retrofit Systems	Testing and Inspection	Gaseous Fuel Systems	Improve Public Transportation	Work Schedule Changes	Land Use Controls
Oregon								
Portland	C	C		C		C		C
Pennsylvania								
Philadelphia	C							
Texas								
All				P				
Utah								
Wasatch Front	C			C		C		
Virginia								
D.C.	P							
Washington								
Puget Sound				C				
Spokane	C	C						
Wisconsin								
Milwaukee				P				

C - Considered
P - Proposed
A - Adopted

III. K. REQUESTS FOR TECHNICAL ASSISTANCE

This table reflects the various kinds of technical assistance requested by State and local agencies from the Air and Water Programs Division in each of the ten EPA Regional Offices.

It points out some of the more major areas of activity performed by State and local programs during FY 1972 and an indication as to where regional program efforts were being directed.

III. K. State Requests for Assistance from EPA Regions
FY 1972

STATE	Air Quality Data	Control Techniques	Data Aquisition	Emergency Episodes	Emission Inventory	Federal Activities	Impact Statements	Implementation Plan	Instrumentation/Monitoring	Land Use Planning	Legal and Enforcement	Meteorological Support	New Source/Hazardous Stds	Permit System	Public Information	Recruitment of Staff	Regulations	Research	Source Sampling	Special Studies (List*)	Training Program (State)	Transportation Control	LIST OF SPECIAL STUDIES*
Alabama	X	X	X	X	X	X		X	X				X	X	X		X		X				
Alaska	X	X		X	X	X		X	X		X	X		X	X	X	X	X				X	
Arizona						X	X				X	X	X				X			X			*Fugitive Dust Study
Arkansas					X			X			X						X						
California				X		X		X	X		X		X	X				X		X		X	*Fugitive Dust Study Trans. Control Strategy for State Imp. Plans
Colorado					X	X		X		X						X	X					X	Helena Valley SO_x Study
Connecticut	X	X	X	X	X	X		X	X	X		X			X			X				X	
Delaware	X	X		X				X				X			X			X					
D. C.		X		X	X		X					X			X		X	X				X	
Florida	X	X	X	X	X	X	X		X	X				X	X	X		X		X			
Georgia	X	X	X	X	X	X	X		X	X				X	X	X		X		X			
Hawaii				X	X	X							X	X						X	X	X	*Sequence Fuel Burning

III. K. State Requests for Assistance from EPA Regions FY 1972

STATE	Air Quality Data	Control Techniques	Data Aquisition	Emergency Episodes	Emission Inventory	Federal Activities	Impact Statements	Implementation Plan	Instrumentation/Monitoring	Land Use Planning	Legal and Enforcement	Meteorological Support	New Source/Hazardous Stds	Permit System	Public Information	Recruitment of Staff	Regulations	Research	Source Sampling	Special Studies (List*)	Training Program (State)	Transportation Control	LIST OF SPECIAL STUDIES*
Idaho	X	X		X	X	X		X	X		X						X	X		X			Indepth Agency Evaluation
Illinois	X			X				X	X		X					X					X		
Indiana	X				X			X	X							X					X		
Iowa	X		X	X	X		X	X	X				X		X		X						
Kansas		X		X	X		X	X	X				X			X							
Kentucky	X	X	X	X	X	X		X	X	X		X	X	X		X		X					
Louisiana		X			X			X			X			X	X		X			X			Development of HC control strategy (contract)
Maine		X		X	X	X	X	X			X			X		X	X						
Maryland		X	X	X	X	X	X		X	X		X			X		X					X	
Massachusetts						X			X			X					X					X	
Michigan	X	X					X		X	X		X				X							
Minnesota						X			X	X						X						X	

III. K. State Requests for Assistance from EPA Regions
FY 1972

STATE	Air Quality Data	Control Techniques	Data Aquisition	Emergency Episodes	Emission Inventory	Federal Activities	Impact Statements	Implementation Plan	Instrumentation/Monitoring	Land Use Planning	Legal and Enforcement	Meteorological Support	New Source/Hazardous Stds	Permit System	Public Information	Recruitment of Staff	Regulations	Research	Source Sampling	Special Studies(List*)	Training Program (State)	Transportation Control	LIST OF SPECIAL STUDIES*
Mississippi	X	X	X	X	X	X		X	X				X	X	X		X		X				
Missouri	X			X	X			X	X					X	X	X	X			X			Prog. Eval. Springfield & State; Eval. Follow up Kansas City, MO.
Montana	X	X	X		X		X	X	X		X	X	X			X	X			X	X		
Nebraska	X	X	X	X	X			X	X		X		X		X	X	X						
Nevada		X				X		X	X	X	X						X			X		X	*Fugitive Dust Study
New Hampshire	X	X	X	X	X			X	X		X	X		X		X	X			X	X		CO levels in truck cabs
New Jersey		X		X	X	X	X	X	X									X	X	X	X		Sources of particulates
New Mexico	X	X	X	X	X	X		X	X		X			X	X		X		X	X			EPA/N. Mex. Joint Study to define emission factor for fugitive dust(roads, construction, etc.)
New York		X	X	X	X	X	X		X	X			X					X	X	X	X	X	Sources of particulates
N. Carolina	X	X	X	X	X	X			X	X				X	X	X		X		X			
North Dakota																							
Ohio	X	X	X		X	X	X		X	X		X	X		X		X	X			X		

III. K. State Requests for Assistance from EPA Regions
FY 1972

STATE	Air Quality Data	Control Techniques	Data Aquisition	Emergency Episodes	Emission Inventory	Federal Activities	Impact Statements	Implementation Plan	Instrumentation/Monitoring	Land Use Planning	Legal and Enforcement	Meteorological Support	New Source/Hazardous Stds	Permit System	Public Information	Recruitment of Staff	Regulations	Research	Source Sampling	Special Studies (List*)	Training Program (State)	Transportation Control	LIST OF SPECIAL STUDIES*
Oklahoma	X	X	X			X		X			X			X	X		X			X			Intend to particulate in EPA/N.Mex. dust study
Oregon		X						X	X		X	X		X		X	X			X		X	Indepth Agency Evaluation
Pennsylvania		X	X		X	X		X	X			X		X			X					X	
Rhode Island					X			X	X		X					X	X						
S. Carolina		X	X	X	X	X		X	X				X	X	X		X		X				
South Dakota		X	X	X	X	X		X	X				X	X	X	X	X		X				
Tennessee		X	X	X	X	X		X	X				X	X	X		X		X				
Texas		X						X			X				X		X			X			Development of HC & NO_x Control strategies
Utah						X		X	X		X					X						X	
Vermont		X	X			X		X	X			X	X	X		X	X						
Virginia		X	X			X	X	X	X			X	X	X	X	X							X	
Washington			X	X	X	X	X		X	X		X	X	X	X		X	X			X	X		Indepth Agency Evaluation

III. K. State Requests for Assistance from EPA Regions
FY 1972

STATE	Air Quality Data	Control Techniques	Data Acquisition	Emergency Episodes	Emission Inventory	Federal Activities	Impact Statements	Implementation Plan	Instrumentation/Monitoring	Land Use Planning	Legal and Enforcement	Meteorological Support	New Source/Hazardous Stds	Permit System	Public Information	Recruitment of Staff	Regulations	Research	Source Sampling	Special Studies(List*)	Training Program (State)	Transportation Control	LIST OF SPECIAL STUDIES*
West Virginia		X		X				X	X		X	X		X			X						
Wisconsin	X	X		X	X			X	X		X	X		X		X							
Wyoming					X	X		X	X				X	X		X	X						
Amer. Samoa	X			X	X		X	X						X									
Guam	X		X	X	X	X	X	X						X		X	X						
Puerto Rico		X			X			X	X		X			X	X		X				X		
Virgin Islands					X			X	X			X			X	X	X				X		

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APPENDIX

A. List of Local Air Pollution Control Agencies by State

B. Clean Air Act Excerpts

Section 105
Section 106

C. Control Agency Function Descriptions

D. Titles and Definitions of Standard State Control Positions

E. New Air Training Courses Planned for FY 1973

F. Regional Office Addresses

APPENDIX A

LOCAL AIR POLLUTION CONTROL AGENCIES

ALABAMA

Air Pollution Control Department
City of Huntsville
P.O. Box 308
Huntsville, AL 35804

Jefferson County Dept. of Health
1912 Eighth Avenue, South
Birmingham, AL 35202

Mobile County Board of Health
248 Cox Street
Mobile, AL 36601

ALASKA

Cook-Inlet Air Res. Mgmt. District
c/o Greater Anchorage Area Borough
Pouch 6-650
Anchorage, AK 99502

Environmental Services Division
Fairbanks North Star Borough
Box 1267; Fairbanks, AK 99707

ARIZONA

Greenlee-Graham County
P.O. Box 1475
Clifton, AZ 85533

Maricopa County Dept. of Health
1825 East Roosevelt Street
Phoenix, AZ 85006

Pima County Air Pollution
Control District
151 West Congress
Tucson, AZ 85701

ARKANSAS

CALIFORNIA

Bay Area Air Pollution
Control District
939 Ellis Street
San Francisco, CA 94109

Alma County Air Pollution Control Dist.
RFD, Gadersville, NV 89410

Amador County
P.O. Box 1058
Pine Grove, CA

Butte County Air Pollution Control Dist.
P.O. Box 1229
Oroville, CA 95965

Calveras County Air Pollution
Control District
Calveras County Health Department
Government Center
San Andreas, CA 95249

Colusa County Air Pollution
Control District
546 Jay
Colusa, CA 95932

Del Norte County Air Pollution Control
District
2850 Cold Springs Road
Placerville, CA 95667

Fresno County Public Health Department
515 South Cedar
Fresno, CA 93702

Glenn County Air Pollution
Control District
Memorial Building
Willows, CA 95988

Humboldt County Air Pollution
Control District
5630 South Broadway
Eureka, CA 95501

Imperial County Air Pollution
Control District
935 Broadway
El Centro, CA 92243

Inyo County Air Pollution Control Dist.
P.O. Box 218
Independence, CA 93526

CALIFORNIA Cont.

Kern County Air Pollution
Control District
P.O. Box 997
St. Bakersfield, CA 93302

Kings County Air Pollution
Control District
1221 West Lacey
Hanford, CA 93230

Lake County Air Pollution
Control District
Rt. #1, Box 315C
Kelsyville, CA 95451

Lassen County Air Pollution
Control Dist.
175 Russell Avenue
Susanville, CA 96130

Los Angeles County Air
Pollution Control District
434 South San Pedro Street
Los Angeles, CA 90013

Madera County Air Pollution
Control District
216 West Sixth Street
Madera, CA 93637

Mariposa County Air Pollution
Control District
P.O. Box 5
Mariposa, CA 95338

Mendocino County Air Pollution
Control District
Courthouse
Ukiah, CA 95182

Merced County Department of
Public Health
240 East 15th Street
Merced, CA 05340

Modoc County Air Pollution
Control District
Box 1091
Arturas, CA 96101

Monterey-Santa Cruz County Unified
Air Pollution Control District
P.O. Box 487
Salinas, CA 93901

Mono County Air Pollution Control Dist.
Courthouse
Bridgeport, CA 93517

Nevada County Air Pollution Control Dist.
P.O. Box 294
Nevada City, CA 95959

Orange County Air Pollution Control Dist.
1010 S. Harbor Blvd.
Anaheim, CA 92805

Placer County Air Pollution Control Dist.
County Health Department
P.O. Box 749
Auburn, CA 95603

Plumas County Health Department
P.O. Box 480
Quincy, CA 95971

Riverside County Air Pollution
Control District
3575 11th Street Mall
Riverside, CA 92501

Air Pollution Control District
Sacramento County Health Department
2221 Stockton Blvd.
Sacramento, CA 95817

San Benito County Air Pollution
Control District
172 West Third Street
San Bernardino, CA 92401

San Diego County Air Pollution
Control District
1600 Pacific Highway
San Diego, CA 92101

San Joaquin County Air Pollution District
1601 East Hazelton Street
Stockton, CA 95201

CALIFORNIA Cont.

San Luis Obispo County Air Pollution Control District
P.O. Box 1489
San Luis Obispo, CA 93401

Santa Barbara County Air Pollution Control District
4440 Calle Real
Santa Barbara, CA 93105

Shasta County Air Pollution Control District
2650 Hospital Lane
Redding, CA 96001

Siskiyou County Air Pollution Control District
Courthouse Annex
Yreka, CA 96097

Stanislaus County Air Pollution Control District
820 Scenic Drive
Modesto, CA 95350

Sierra County Air Pollution Control District
County Court House
Downieville, CA 95936

Sutter County Air Pollution Control District
142 Garden Highway
Yuba, CA 95991

San Brindino Air Pollution Control District
172 West 3rd St.
San Brindino, CA 92401

Tehama County Air Pollution Contrc Board
P.O. Box 250
Red Bluff, CA 96080

Tulare County Air Pollution Control District
County Civic Center
Visalia, CA 03277

Truty County Air Pollution Control Dist.
P.O. Box AK
Weaverville, CA 96093

Tuolumme County Air Pollution Control Dist.
9 N. Washington Street
Senora, CA 95370

Ventura County Air Pollution Control District
735 East Santa Barbara Street
Santa Paula, CA 93060

Yolo-Solano Air Pollution Control Dist.
P.O. Box 1157
Woodland, CA 95695

Yuba County Air Pollution Control District
1420 "I" Street
Marysville, CA 95901

COLORADO

Tri-County District Health Dept.
4857 South Broadway
Englewood, CO 80110

Boulder City-County Health Dept.
3450 Broadway
Boulder, CO 80302

Air Pollution Control Agency
Department of Health & Hospitals
City-County of Denver
W 8th Ave. & Cherokee Streets
Denver, CO 80204

El Paso City-County Health Dept.
712 South Tegon
Colorado Springs, CO 80902

Jefferson County Health Dept.
260 South Kipling
Lakewood, CO 80226

Larimer County Health Dept.
County Court House
200 West Oak Street
Fort Collins, CO 80521

COLORADO Cont.

Las Animas-Huerfano Counties
District Health Department
P.O. Box 791
Walsenburg, CO 81089

Mesa County Dept. of Public Health
515 Patterson
Grand Junction, CO 81501

Pueblo City-County Health Dept.
151 Central Main
Pueblo, CO 81003

Weld County Health Department
1555 17th Avenue
Greeley, CO 80631

CONNECTICUT

Air Pollution Control Bureau
Office of Humane Affairs
City of Bridgeport
835 Washington Avenue
Bridgeport, CT 06604

Fairfield Health Department
Town Hall
Fairfield, CT 06430

Greewich Health Department
Town Hall Annex
Greenwich, CT 06830

Dept. of Health
Stoddard Municipal Bldg.
165 Miller Street
Meriden, CT 06450

Middletown Health Dept.
Dekoven Drive
Middletown, CT 06457

Dept. of Environmental Health
Eels Hill Annex
Milford, CT 06460

New Britain Health Department
27 West Maine Street
New Britain, CT 06051

Bureau of Environmental Health
New Haven Health Department
One State Street
New Haven, CT 06511

Department of Health
137-139 East Avenue
Norwalk, CT 06824

Stamford Health Department
229 North Street
Stamford, CT 06901

Department of Health
Town Hall
Stratford, CT 06497

DELAWARE

DISTRICT OF COLUMBIA

FLORIDA

Broward County Air & Water
Pollution Control Board
540 S.E. Third Avenue
Fort Lauderdale, FL 33301

Bio-Environmental Services Div.
Dept. of Health, Welfare, and
Bio-Environmental Services
6925 Evergreen Avenue
Jacksonville, FL 32208

Hillsborough County Pollution
Control Commission
906 Jackson Street
Tampa, FL 33602

Manatee County Air & Water Pollution
Control Department
202 Sixth Avenue, East
Bradenton, FL 33505

Metro Dade County Pollution
Control Department
864 N.W. 23rd Street
Miami, FL 33127

Environmental Control Board
Palm Beach County Courthouse
West Palm Beach, FL 33401

Pinellas County Health Dept.
500 Seventh Avenue South
St. Petersburg, FL 33721

Sarasota County Health Dept.
P.O. Box 2658
Sarasota, FL 33578

GEORGIA

Fulton County Health Dept.
99 Butler Street, S.E.
Atlanta, GA 30303

HAWAII

IDAHO

ILLINOIS

Bedford Park Air Pollution Control
Board
6700 78th Avenue
Bedford Park, IL 60501
c/o Argo, IL Post Office

Bensenville Pollution Control
Department
700 West Irving Park Road
Bensenville, IL 60106

City of Chicago
Dept. of Environmental Control
320 North Clark Street
Chicago, IL 60610

Crystal Lake Pollution Control
Department
121 North Main Street
Crystal Lake, IL 60014

Cook County Environmental
Control Bureau
Chicago Civic Center, Room 309
Chicago, IL 60602

East St. Louis Air Pollution Control
7 Collinsville Avenue
East St. Louis, IL 62201

Air Pollution Control Division
Department of Inspections & Permits
828 Davis Street
Evanston, IL 60204

Air Pollution Control Board
Granite City
2301 Adams St.
Granite City, IL 62040

Village of McCook
Air Pollution Control Board
50th and Glencoe Avenue
McCook, IL 60525

Quad City Area Regional Air Pollution
Control Agency
1504 Third Avenue
Rock Island, IL 61201

Will County Health Department
510 Ella Avenue
Joliet, IL 60433

INDIANA

Air Pollution Control Department
Water Pollution Plant
Moss Island Road
Anderson, IN 46012

Dept. of Air Quality Control
4525 Indianapolis Blvd.
East Chicago, IN 46812

Air Pollution Control Dept.
City of Evansville
Administration Bldg., Rm 207
Evansville, IN 47708

Air Pollution Control Division
City of Gary
3600 West Third Avenue
Gary, IN 46406

Dept. of Air Pollution Control
5925 Calumet Avenue
Hammond, IN 46320

INDIANA Cont.

Bureau of Air Pollution Control
Dept. of Public Works
Room 2401 City-County Building
200 E. Washington St.
Indianapolis, IN 46204

Lake County Health Department
209 West Joliet Street
Crown Point, IN 46307

Air Pollution Control Division
100 West Sixth Street
Michigan City, IN 46360

Division of Pollution Control
St. Joseph County Health Department
1419 South Michigan Street
South Bend, IN 46613

Division of Air Pollution Control
Vigo County Health Department
120 South Seventh Street
Terre Haute, IN 47807

Wayne County Health Department
Courthouse Room 113
Richmond, IN 47374

IOWA

Linn County Health Department
445 First Street, S.W.
Cedar Rapids, IW 52404

Des Moines-Polk County Health Dept.
East First Street & Des Moines Street
Des Moines, IW 50309

KANSAS

Kansas City-Wyandotte County
Department of Health
619 Ann Avenue
Kansas City, KS 66101

Wichita-Sedgwick County
Department of Community Health
1900 East 9th Street
Wichita, KS 67203

KENTUCKY

Air Pollution Control District
of Jefferson County
2500 S. Third Street
Louisville, KY 40202

LOUISIANA

MAINE

MARYLAND

Allegany County Health Dept.
P.O. Box 690
111 Union Street
Cumberland, MD 21502

Air Quality Control Section
Div. of Environmental Health
Anne Arundel County
Department of Health
101 South Street
Annapolis, MD 21401

Division of Air Pollution Control
Bureau of Industrial Hygiene
Baltimore City Health Department
Maryland Avenue & Hillan Road
Baltimore, MD 21202

Baltimore County Dept. of Health
Maryland Avenue
Towson, MD 21204

Frederick County Health Dept.
Air Quality Control Section
12 East Church Street
Frederick, MD 21701

Howard County Health Department
P.O. Box 476
Ellicott City, MD 21043

MARYLAND Cont.

Montgomery County Dept.
of Environmental Protection
County Office Building
Rockville, MD 20850

Prince Georges County Health
Department
Cheverly, MD 20715

MASSACHUSETTS

Berkshire Air Pollution Control
District
1414 State Street
Springfield, MA 01009

Air Pollution Control Commission
Quincy Market Building, Room 84
Boston, MA 02109

Central Mass. Air Pollution Control
District
City Hall, Room 404
Worcester, MA 01608

Fitchburg Board of Health
City Hall, Room 17
Fitchburg, MA 01420

Merrimack Valley Air Pollution
Control District
600 Washington Street
Boston, MA 02111

Metro Boston Air Pollution Control
District
600 Washington Street
Boston, MA 02111

Pioneer Valley Air Pollution Control
District
1414 State Street
Springfield, MA 01109

Southeastern Mass. Air Poll.
Control District
Lakeville Hospital
Lakeville, MA 02346

Air Pollution Control Division
Worcester Dept. of Public Health
455 Main Street
Worcester, MA 01608

MICHIGAN

Flint Air Pollution Control Division
1100 South Saginaw Street
Flint, MI 48502

City of Grand Rapids
City Hall, Room 403
Grand Rapids, MI 49503

Macomb County Health Dept.
43525 Elizabeth Road
Mt. Clemens, MI 48043

Air Pollution Control Section
Muskegon County Health Dept.
County Building
Terrace Street
Muskegon, MI 49440

Wayne County Air Pollution
Control Division
Wayne County Health Dept.
1311 East Jefferson Street
Detroit, MI 48207

MINNESOTA

Dept. of Environmental Services
2215 West Old Shakopee Road
Bloomington, MN 55431

Air Pollution Control Division
Department of Inspections
220 Grain Exchange
Minneapolis, MN 55415

Olmsted County Health Dept.
415 Fourth Street, S.E.
Rochester, MN 55901

Richfield Health Department
6700 Portland Avenue
Richfield, MN 55423

MINNESOTA Cont.

St. Cloud Health Department
111 South Fourth Avenue
St. Cloud, MN 56301

St. Louis County Health Dept.
504 East Second Street
Duluth, MN 55805

St. Louis Park Health Dept.
5005 Minnetonka Blvd.
St. Louis Park, MN 55416

Air Pollution Control Division
Public Utilities Dept.
100 East 10th Street
St. Paul, MN 55101

MISSISSIPPI

MISSOURI

Greene County-City of Springfield
Air Pollution Control Authority
940 Boonville
Springfield, MO 65802

Independence Health Department
210 South Main Street
Independence, MO 64050

Kansas City Health Department
City Hall, 21st Floor
Kansas City, MO 64106

Division of Air Pollution Control
City Hall, Room 419
St. Louis, MO 63103

Division of Air Pollution Control
St. Louis County Health Department
801 South Brentwood Blvd.
Clayton, MO 63105

MONTANA

Billings-Laurel-Yellowstone County Air
Pollution Control Program
3302 2nd Avenue, North
Billings, MT 59103

Cascade County Air Pollution Control Prog.
City-County Health Department
1130 17th Avenue, South
Great Falls, MT 59401

Missoula City-County Health Department
301 Courthouse Annex
Missoula, MT 59801

NEBRASKA

Lincoln-Lancaster County Air Pollution
Control Agency
Lincoln-Lancaster County Health Dept.
2200 St. Marys Avenue
Lincoln, NB 68502

City of Omaha
Public Safety Department
Permits & Inspection Division
108 South 18th Street
Omaha, NB 68102

NEVADA

District Health Department of
Clark County
625 Shadow Lane
Las Vegas, NV 89106

Washoe County District Health Dept.
10 Kirman Avenue
Reno, NV 89502

NEW HAMPSHIRE

NEW JERSEY

Central Jersey Regional Air Pollution
Control Agency
655 Ambey Avenue
Woodbridge, NJ 07095

Department of Health, Welfare, and
Housing
60 West Scott Place
Elizabeth, NJ 07201

Hudson Municipal Air Pollution
Commission
532 Summit Avenue
Jersey City, NJ 07306

NEW JERSEY Cont.

Suburban Air Pollution Comm.
49 Mt. Pleasant Avenue
West Orange, NJ 07052

NEW MEXICO

Albuquerque Department of
Environmental Health
Box 1293
Albuquerque, NM 87103

NEW YORK

Albany County Health Department
South Ferry and Green Streets
Albany, NY 12201

Chemung County Health Dept.
John Street-Heritage Park
Elmira, NY 14901

Columbia County Dept. of Health
363 Allen Street
Hudson, NY 12534

Erie County Dept. of Health
95 Franklin Street
Buffalo, NY 14202

Monroe County Department of Health
111 Westfall Road
Rochester, NY 14602

Bureau of Air Pollution Control
Division of Environmental Health
240 Old Country Road
Mineola, NY 11501

Department of Public Health
30 Church Street
New Rochelle, NY 10805

Department of Air Resources
Environmental Protection Admin.
51 Astor Place
New York, NY 10038

Interstate Sanitation Commission
10 Columbus Circle
New York, NY 10019

Division of Environmental Health Services
Niagara County Health Department
525 Bewley Building
Lockport, NY 14094

Division of Environmental Sanitation
Onondaga County Dept. of Health
300 South Geddes Street
Syracuse, NY 13204

Rensselaer County Dept. of Health
Division of Environmental Hygiene
Seventh Ave. & State Street
Troy, NY 12181

Rockland County Dept. of Health
50 Samsondale Plaza
West Haverstraw, NY 10993

Suffolk County Department of
Environmental Control
1324 Motor Parkway
Hauppauge, NY 11787

Westchester County Department
Of Health
County Office Building
Martine Avenue
White Plains, NY 10601

NORTH CAROLINA

Unifour Air Pollution Control Prog.
County Office Building
Newton, NC 28658

Western N.C. Regional Air
Pollution Control Agency
P.O. Box 7607
Courthouse
Asheville, NC 28807

Air Pollution Control Center
Cleveland County Health Dept.
315 Grove Street
Shelby, NC 28150

NORTH CAROLINA Cont.

Cumberland County Health Dept.
515 Person Street
Fayetteville, NC 28302

Durham County Air Pollution
Control Agency
300 East Main Street
Durham, NC 27701

Forsyth County Board of Commissioners
206 Government Circle
Third & Maine Street
Winston-Salem, NC 27103

Gaston County Health Department
Box 819
Gastonia, NC 28502

Guilford County Dept. of Public Health
300 East Northwood Street
Greensboro, NC 27401

Mecklenburg County Health Dept.
1200 Blythe Blvd.
Charlotte, NC 28203

Rowan County Health Department
1216 West Innes Street
Salisbury, NC 28144

NORTH DAKOTA

OHIO

Air Pollution Control
177 South Broadway
Akron, OH 44308

Air Pollution Control Division
Canton City Health Department
City Hall, Second Floor
Canton, OH 44702

Division of Air Pollution Control
2400 Beekman Street
Cincinnati, OH 45214

Division of Air Pollution Control
Department of Public Health
and Welfare
2735 Broadway Avenue
Cleveland, OH 44115

Division of Air Pollution Control
1313 Chesapeake Avenue
Columbus, OH 48212

Lake County Combined General
Health District
121 Liberty Street
Painsville, OH 44077

Dept. of Air Pollution Control
329 10th Street
Lorain, OH 44052

Middletown Division of Air
Pollution Control
1240 Central Avenue
Middletown, OH 45042

Montgomery County Health Dept.
6175 West Third Street
Dayton, OH 45427

Portsmouth City Health Dept.
740 Second Street
Portsmouth, OH 45662

Department of Health
City of Mansfield
600 West Third Street
Mansfield, OH 44906

Steubenville Air Quality Region
City Annex Building
308 Market Street
Steubenville, OH 43952

Pollution Control Agency
26 Main Street
Toledo, OH 43605

Wood-Lucas County Air Pollution Agency
541 West Wooster Street
Bowling Green, OH 43402

Youngstown Air Pollution Control Agency
7 West Federal Street
Youngstown, OH 44503

OKLAHOMA

Air Quality Control Division
Okla. City-County Health Dept.
921 N.E. 23rd St.
Oklahoma City, OK 73105

Tulsa City-County Health Department
4616 East 15th Street
Tulsa, OK 74112

OREGON

Columbia-Willamette Air Pollution Authority
1010 N.E. Couch Street
Portland, OR 97232

Lane Regional Air Pollution Authority
Route 1, Box 739
Eugene, OR 97402

Mid-Willamette Valley Air Pollution Authority
2585 State Street
Salem, OR 97301

PENNSYLVANIA

Allegeny County Health Dept.
Bureau of Air Pollution Control
301 39th Street, Bldg. #7
Pittsburgh, PA 15204

Air Pollution Control Board of Greater York
757 West Market Street
York, PA 17404

Lehigh Valley Air Pollution Control District
1516 Main Street
Northampton, PA 18067

Air Management Services
Phila. Department of Public Health
1701 Arch Street
Philadelphia, PA 19103

PUERTO RICO

RHODE ISLAND

SOUTH CAROLINA

Charleston County Council
County Office Bldg.
2 Courthouse Square
Charleston, SC 29401

Building & Inspection Dept.
City of Columbia
City Hall
1737 Main Street
Columbia, SC 29201

Greenville County Health Dept.
200 Unversity Ridge
Greenville, SC 29601

County Pollution Control Authority
County Court House
Spartanburg, SC 29301

SOUTH DAKOTA

TENNESSEE

Chattanooga-Hamilton County Air Pollution Control Bureau
City Hall Annex, Room 201
Chattanooga, TN 37402

Knox County Air Pollution Control Department
307 Locust Street
City Park Hall, Bldg. C
Knoxville, TN 39702

Memphis-Shelby County Health Dept.
814 Jefferson Avenue
Memphis, TN 38105

Metro Health Department of Nashville & Davidson County
311 23rd Avenue, North
Nashvill, TN 37203

TEXAS

Corpus Christi-Nueces County
Department of Health & Welfare
1811 N. Shoreline
Corpus Christi, TX 78401

City of Dallas Health Dept.
1936 Amelia Court
Dallas, TX 75235

El Paso City-County Health Dept.
222 South Campbell
El Paso, TX 79901

City of Fort Worth
Department of Public Health
1800 University Blvd
Fort Worth, TX 76107

Galveston County Air Control Dept.
104 Fourth Street, South
Texas City, TX 77590

Houston City Health Dept.
Pollution Control Division
1115 North MacGregor Drive
Houston, TX 77025

Jefferson County Environmental
Control Department
1149 Pearl Street
Beaumont, TX 77701

Laredo-Webb County Health Dept.
2600 Cedar Avenue
Laredo, TX 78040

Lubbock City-County Health Dept.
1202 Jarvis Street
Lubbock, TX 79457

San Antonio Metro Health District
131 West Nueva Street
San Antonio, TX 78204

UTAH

VERMONT

VIRGINIA

Alexandria Health Department
517 N St. Asaph St.
Alexandria, VA 22314

Arlington County Bureau of
Environmental Health
1800 North Edison
Arlington, VA 22207

Fairfax County Health Dept.
4080 Chain Bridge Road
Fairfax, VA 22030

Air Pollution Control Bureau
Department of Public Safety
501 North Ninth Street
Richmond, VA 23219

City of Roanoke
215 Church Avenue, S.W.
Roanoke, VA

Roanoke County Health Dept.
510 S. College Ave.
Salem, VA 24153

VIRGIN ISLANDS

WASHINGTON

N.W. Air Pollution Authority
207 Pioneer Building
Second and Pine
Mount Vernon, WA 98273

Olympic Air Pollution Control
Authority
120 East State Avenue
Olympia, WA 98501

Puget Sound Air Pollution Control
Agency
410 West Harrison Street
Seattle, WA 98119

S.W. Air Pollution Control Authority
7601 N.E. Hazel Dell Avenue
Vancouver, WA 98665

WASHINGTON Cont.

Spokane County Air Pollution
Control Authority
North 811 Jefferson
Spokance, WA 99201

Yakima County Clean Air Authority
Yakima County Court House, Room 201
Yakima, WA 98901

WEST VIRGINIA

Wheeling Air Pollution Control Dept.
420 Hawley Bldg.
Main Street
Wheeling, WV 26003

WISCONSIN

City of Beloit
Department of Health
Municipal Center
Beloit, WI 53511

Air Pollution Committee
Board of Supervisors
Douglas County
Courthouse
Superior, WI 54880

Eau Claire City-County Health Dept.
414 East Grand Avenue
Eau Claire, WI 54701

City of Green Bay
100 North Jefferson
Green Bay, WI 54301

Madison Dept. of Public Health
507 City-County Building
Madison, WI 53709

Milwaukee County Dept. of Air
Pollution Control
9722 West Watertown
Plank Road
Milwaukee, WI 53226

Racine County Air Pollution
Control Department
730 Wisconsin Avenue
Racine, WI 53403

WYOMING

Laramie Environmental Commission
203 South Fourth Street
Laramie, WY 82070

APPENDIX B

"GRANTS FOR SUPPORT OF AIR POLLUTION PLANNING AND CONTROL PROGRAMS

"Sec. 105. (a)(1)(A) The Administrator may make grants to air pollution control agencies in an amount up to two-thirds of the cost of planning, developing, establishing, or improving, and up to one-half of the cost of maintaining, programs for the prevention and control of air pollution or implementation of national primary and secondary ambient air quality standards.

"(B) Subject to subparagraph (C), the Administrator may make grants to air pollution control agencies within the meaning of paragraph (1), (2), or (4) of section 302(b) in an amount up to three-fourths of the cost of planning, developing, establishing, or improving, and up to three-fifths of the cost of maintaining, any program for the prevention and control of air pollution or implementation of national primary and secondary air quality standards in an area that includes two or more municipalities, whether in the same or different States.

"(C) With respect to any air quality control region or portion thereof for which there is an applicable implementation plan under section 110, grants under subparagraph (B) may be made only to air pollution control agencies which have substantial responsibilities for carrying out such applicable implementation plan."

"(2) Before approving any grant under this subsection to any air pollution control agency within the meaning of sections 302 (b)(2) and 302(b)(4) the Administrator shall receive assurances that such agency provides for adequate representation of appropriate State, interstate, local, and (when appropriate) international, interests in the air quality control region.

"(3) Before approving any planning grant under this subsection to any air pollutant control agency within the meaning of sections 302(b)(2) and 302 (b)(4), the Administrator shall receive assurances that such agency has the capability of developing a comprehensive air quality plan for the air quality control region, which plan shall include (when appropriate) a recommended system of alerts to avert and reduce the risk of

situations in which there may be imminent and serious danger to the public health or welfare from air pollutants and the various aspects relevant to the establishment of air quality standards for such air quality control region, including the concentration of industries, other commercial establishments, population and naturally occurring factors which shall affect such standards.

"(b) from the sums available for the purposes of subsection (a) of this section for any fiscal year, the Administrator shall from time to time make grants to air pollution control agencies upon such terms and conditions as the Administrator may find necessary to carry out the purposes of this section. In establishing regulations for the granting of such funds the Administrator shall, so far as practicable, give due consideration to (1) the population, (2) the extent of the actual or potential air pollution problem, and (3) the financial need of the respective agencies. No agency shall receive any grant under this section during any fiscal year when its expenditures of non-Federal funds for other than nonrecurrent expenditures for air pollution control programs will be less than its expenditures were for such programs during the preceding fiscal year; and no agency shall receive any grant under this section with respect to the maintenance of a program for the prevention and control of air pollution unless the Administrator is satisfied that such grant will be so used as to supplement and, to the extent practicable, increase the level of State, local, or other non-Federal funds that would in the absence of such grant be made available for the maintenance of such program, and will in no event supplant such State, local, or other non-Federal funds. No Grant shall be made under this section until the Administrator has consulted with the appropriate official as designated by the Governor or Governors of the State or States affected.

"(c) Not more than 10 per centum of the total of funds appropriated or allocated for the purposes of subsection (a) of this section shall be granted for air pollution control programs in any one State. In the case of a grant for a program in an area crossing State boundaries, the Administrator shall determine the portion of such grant that is chargeable to the percentage limitation under this subsection for each State into which such area extends.

"(d) The Administrator, with the concurrence of any recipient of a grant under this section, may reduce the payments to such recipient by the amount of the pay, allowances, traveling expenses, and any other costs in connection with the detail of any officer or employee to the recipient under section 301 of this Act, when such detail is for the convenience of, and at the request of, such recipient and for the purpose of carrying out the provisions of this Act. The amount by which such payments have been reduced shall be available for payment of such costs by the Administrator, but shall, for the purpose of determining the amount of any grant to a recipient under subsection (a) of this section, be deemed to have been paid to such agency.

"INTERSTATE AIR QUALITY AGENCIES OR COMMISSIONS

"Sec. 106. For the purpose of developing implementation plans for any interstate air quality control region designated pursuant to section 107, the Administrator is authorized to pay, for two years, up to 100 per centum of the air quality planning program costs of any agency designated by the Governors of the affected States, which agency shall be capable of recommending to the Governors plans for implementation of national primary and secondary ambient air quality standards and shall include representation from the States and appropriate political subdivisions within the air quality control region. After the initial two-year period the Administrator is authorized to make grants to such agency in an amount up to three-fourths of the air quality planning program costs of such agency.

APPENDIX C

CONTROL AGENCY FUNCTION DESCRIPTION

MANAGEMENT:

A. Policy, public relations, intergovernmental relations, and development of control strategies and plans: These functions include the variety of special activities required of an agency director and his immediate staff in order to conduct a meaningful and dynamic control program. As an agency increases in size, specialists such as systems analysts, public relations experts, and technical writers may be involved. For small agencies, these skills may be part of the duties of major supervisors.

B. Administrative and clerical support: This function includes budgeting, record keeping, filing, typing, and related work, as normally required to operate an agency. All clerical staff of the agency are included in this category for ease of tabulation.

C. Staff training: This function includes the activities of training officers and supervisors in providing on-the-job or formal group training.

TECHNICAL SERVICES:

A. Laboratory operations: This function includes all preparatory and analytical laboratory activities necessary to support source sampling, ambient air monitoring, and special studies.

B. Operation of monitoring network. This function relates to the routine servicing and operation of all sampling and meteorological instruments deployed in the field for continuous surveillance of air quality and diffusion characteristics. The data generated are used as input to diffusion models for prediction of future air quality and the development of control regulations; to determine the effectiveness of agency operation in reducing and/or preventing air pollution to forecast episode conditions, and for public information and education purposes.

C. Data processing: This function includes data reduction, processing, and statistical treatment for air sampling, meteorology, permit processing, emission calculations, and development of inspection schedules.

D. Special studies: This function includes a variety of special studies conducted for purposes of locating sampling stations, determining contribution of specific sources to ambient air pollution levels, and determining need for new regulations.

D. Instrument calibration and maintenance: This function includes those tasks performed to ensure the proper operation of sampling, analytical, and meteorological instruments operated by the agency.

ENFORCEMENT SERVICES:

A. Scheduled inspections for permit renewal: This function relates to the activities required of an air pollution inspector to determine whether all sources of pollution, operating under a permit are in compliance with the terms of that permit. The function includes travel time, inspection, and report preparation.

B. Complaint-handling and field patrol: This function includes the operation of a continuous field patrol to enforce regulations on open burning, visible emissions, odors, etc.

ENGINEERING SERVICES:

A. Calculation of emission estimates: This function relates to the work done in estimating emission rates from various sources and source categories to provide information on program effectiveness, potential future problems within an agency's area of jurisdiction, location of sampling stations, and need for new regulations.

B. Permit system: This function covers all the work involved in reviewing plans for potential new sources of air pollution; consultation with builder, owner and/or other interested parties to effect changes, where necessary, making inspections to ensure that what is done conforms to the plans; and appearing before hearing boards to substantiate findings. It is assumed that permits are issued to prevent pollution in a comprehensive manner and that the system includes an authority to construct and a permit to operate.

C. Development of control regulations, preparation of technical reports on control and review of industrial control plan for episodes: These areas are generally project-oriented or considered part-time responsibilities of the engineering staff.

APPENDIX D

TITLES AND DEFINITIONS OF STANDARD STATE CONTROL POSITIONS

DIRECTOR: Plans, organizes, and directs the professional, administrative, and technical activities of an air pollution control program; coordinates the program with local, state, regional, federal, and private agencies and organizations concerned with air pollution and related environmental activities; and evaluates program and personnel effectiveness and initiates improvements.

SUPERVISOR: Under the direction of the Director, with broad technical latitude, is responsible for planning a major segment of an air pollution control program; coordinating it with other segments of the program; supervising a professional, administrative, and technical staff; and acting for the Director as designated.

ENGINEER I: Under close supervision, makes beginning professional engineering analyses and evaluations of air pollution sources, problems, and assists in the development of emission reduction strategies; may assist in provision of professional and technical advice; may participate in special studies; may lead and assist in training program personnel; learns to perform more difficult engineering duties.

ENGINEER II: Under general supervision, with technical latitude, performs professional engineering work in an office or in the field; makes analyses and evaluations of air pollution sources, problems, and permit plans; calculates emission inventories and develops emission control and reduction strategies and emergency episode plans; provides professional and technical advice; plans and conducts special studies; assists in planning the air pollution control program; leads and trains program personnel.

CHEMIST I: Under close supervision, performs standardized chemical analyses of atmospheric contaminants; assists in the development of analytical procedures and measurement techniques; learns to perform more difficult analyses and to provide professional and technical advice on the chemistry of air pollution; may participate in special studies; my lead and assist in training program personnel.

CHEMIST II: Under general supervision, with technical latitude, performs professional chemical analyses of atmospheric contaminants; develops analytical procedures and measurement techniques for laboratory and field activities; rpovides professional and technical advice; plans and conducts special studies; assists in planning the air pollution control program; leads and trains program personnel.

METEOROLOGIST I: Under close supervision, performs beginning professional meteorological analyses and evaluations of meteorological and air pollution data; assists in the relation of meteorological elements to air pollution problems and preparation of periodic air quality forecasts; may participate in special studies; may lead and assist in the training of program personnel; learns to perform more difficult meteorological duties.

METEOROLOGIST II: Under general supervision, with technical latitude, makes professional meteorological analysis and evaluations of meteorological and air pollution data; relates meteorological elements to air pollution problems in control models; prepares periodic air quality forecasts; recommends implementation and termination of emergency episode plans; provides professional and technical advice; plans and conducts special studies; assists in planning the air pollution control program; leads and trains program personnel.

SPECIALIST I: Under close supervision, makes beginning professional level analyses and evaluations of air pollution sources, problems and permit plans; assists in complex inspections and investigations; assists in the development of recommendations and in the conduct of negotiations for improvement or modification of air pollutants conditions, initiation of enforcement action and provision of professional and technical advice; may participate in special studies; may lead and assist in the training of program personnel, learns to perform more difficult professional level duties.

SPECIALIST II: Under general supervision, with technical latitude, functions as a professional-level program representative; conducts complex inspections and investigations of reported violations; analyzes and evaluates air pollution sources, problems, and permit plans; develops recommendations and negotiates improvements or corrective actions; initiates enforcement actions; provides professional and technical advice; plans and conducts special studies; assists in planning the air pollution control program; leads and trains program personnel.

TECHNICIAN I:	Under close supervision, following detailed directions, performs routine technical tasks in laboratory, field and shop; assists higher-level staff installing, operating, calibrating and repairing a variety of equipment and instruments used in the air pollution control program; participates in training.
TECHNICIAN II:	Under supervision, following general directions, installs, calibrates, operates, modifies, maintains, and repairs a variety of equipment and instruments used in the air pollution control program; may assist professional staff conducting special studies; and may lead and assist in the training of lower-level staff.
TECHNICIAN III:	Under general supervision, with technical latitude, performs a broad range of technical duties of varying complexity in the laboratory, shop, and field; assists professional staff conducting special studies; and leads and trains lower-level staff.
INSPECTOR I:	Under close supervision, following detailed directions, performs routine field surveillance, facility and equipment inspection, and, and complaint investigation and learns to perform more responsible tasks by observing and assisting higher-level staff and participating in training.
INSPECTOR II:	Under supervision, following general technical directions, performs field surveillance, facility and equipment inspection, and complaint investigation; may assist professional staff conducting special studies; and may lead and assist in the training of lower-level staff.
INSPECTOR III:	Under general supervision, with technical latitude, performs field surveillance, facility and equipment inspection, and complaint investigation; assists professional staff in conducting special studies; and leads and trains lower-level staff.
AIDE I:	Under close supervision, following detailed directions serves as a helper to a higher-level employee and learns to perform routine tasks.
AIDE II:	Under close supervision, serves as a helper to higher-level employees and learns to perform more difficult tasks requiring some technical knowledge and skill.
ADMINISTRATIVE: CLERICAL: AND OTHER	Includes any category not included in above occupational categories.

APPENDIX E

NEW COURSES FOR FISCAL YEAR 1973

Air Quality Management Section

Environmental Training Simulation (#454)	(5 days)
Air Pollution Principles for Planners (#455)	(3 days)
Regional Planning for Air Pollution Control Officers (#456)	(3 days)
Workshop in Public Communication, Air Pollution (#457)	(3 days)
Air Pollution Administration I (#458)	(3 days)
Air Pollution Administration II (#459)	(3 days)
Air Pollution Administration III (#460)	(3 days)
Air Pollution Systems Management (#461)	(4 days)
Air Pollution Agency Planning Seminar (#462)	(2 days)

Laboratory & Surveillance Section

Air Pollution Monitoring Systems (#463)	(5 days)
Polycyclic Organics (#464)	
Analysis for Air Quality Standards (#465)	(10 days)

For further information concerning these and other training courses contact:
Environmental Protection Agency
Office of Air Programs
Office of Manpower Development
Research Triangle Park,
North Carolina 27711

APPENDIX F

REGIONAL OFFICE ADDRESSES

REGION	STATES COVERED	
Regional Administrator, Region I U. S. Environmental Protection Agency John F. Kennedy Federal Building Boston, MA 02203	Maine Massachusetts Connecticut Vermont	New Hampshire Rhode Island
Regional Administrator, Region II U. S. Environmental Protection Agency 26 Federal Plaza Room 847 New York, NY 10007	New York Puerto Rico	New Jersey Virgin Islands
Regional Administrator, Region III U. S. Environmental Protection Agency 6th & Walnut Streets Philadelphia, PA 19106	Pennsylvania Maryland West Virginia Virginia	Delaware D. C.
Regional Administrator, Region IV U. S. Environmental Protection Agency 1421 Peachtree Street, N.E. Suite 300 Atlanta, GA 30309	Kentucky Tennessee Mississippi Florida	Alabama North Carolina South Carolina Georgia
Regional Administrator, Region V U. S. Environmental Protection Agency One North Wacker Drive Chicago, IL 60606	Ohio Minnesota Indiana	Illinois Michigan Wisconsin
Regional Administrator, Region VI U. S. Environmental Protection Agency 1600 Patterson Street Dallas, TX 75201	Oklahoma Arkansas Texas	Louisiana New Mexico
Regional Administrator, Region VII U. S. Environmental Protection Agency 1735 Baltimore Avenue Kansas City, MO 64108	Nebraska Kansas	Iowa Missouri
Regional Administrator, Region VIII U. S. Environmental Protection Agency Lincoln Tower Building, Suite 900 1860 Lincoln Street Denver, CO 80203	Montana Wyoming Colorado	North Dakota South Dakota Utah
Regional Administrator, Region IX U. S. Environmental Protection Agency 100 California Street San Francisco, CA 94111	Hawaii Nevada Arizona	Guam American Samoa California
Regional Administrator, Region X U. S. Environmental Protection Agency 1200 6th Avenue Seattle, WA 98101	Alaska Oregon	Idaho Washington

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